



School Building Authority
OF WEST VIRGINIA

Planning for the 2020 CEFPs

Comprehensive Educational Facilities Planning

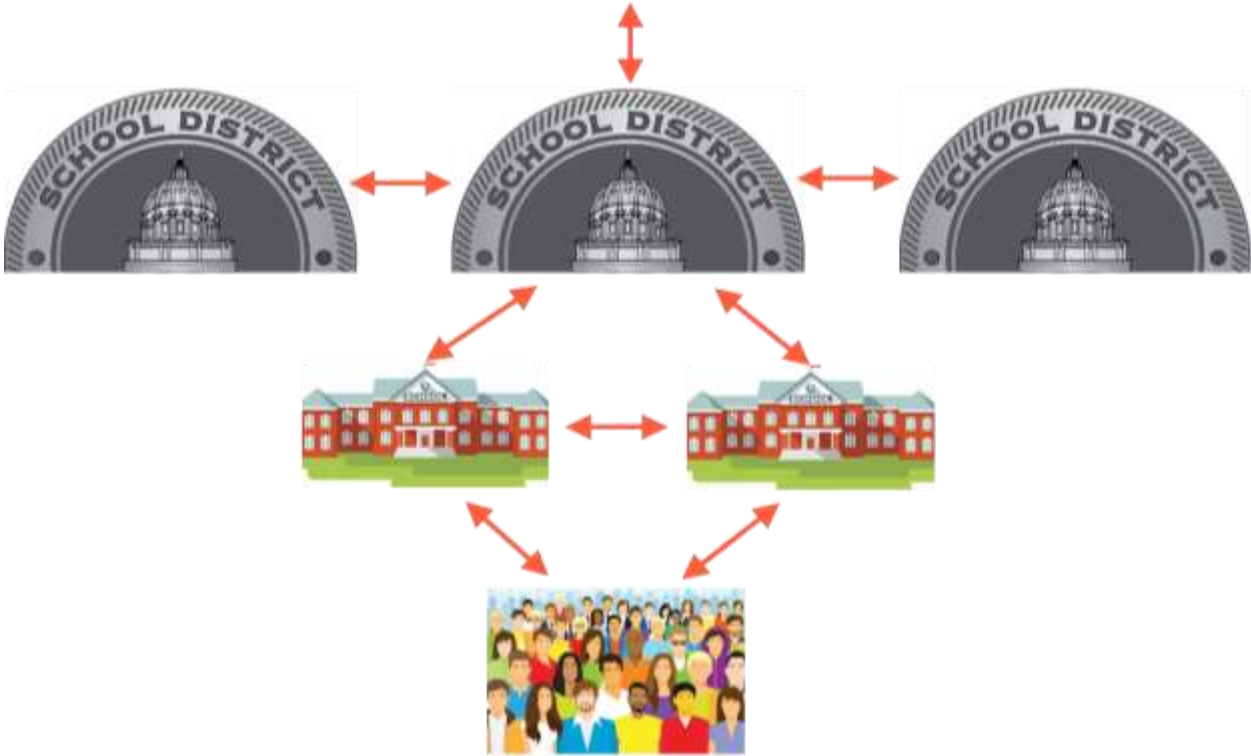
Monday, March 18, 2019

sba.wv.gov

Comprehensive Educational Facilities Planning

- ❖ Long-range Planning *before* Individual Projects
- ❖ Relating to the Delivery of Education...
 - ❖ Identify current & future facility needs
 - ❖ Predict life-cycle costs of systems & equipment
- ❖ Ongoing implementation, review
- ❖ “To-Do List” for facilities
- ❖ Tech-based platform – readily available data

CEFP Engagement Platform



Collaboration

WVDE Policy 6200 – Chapter 1

- A. Goals & Objectives
- B. Community Analysis
- C. Population & Enrollment Study
- D. The Educational Plan
- E. Evaluation & Inventory of Existing Facilities
- F. Major Improvement Plan
- G. Inter-County Feasibility Study
- H. Translating Educational Needs into Facility Needs
- I. Finance Plan & Project Priority List
- J. Synopsis of Comments from Public Hearing(s)
- K. Objective Evaluation of the Plan's Implementation

Phase 1

Phase 2

Phase 3

Phase 4

The Old Process 1990-2019



The New Process – A Cycle of Success

❖ Phase 1: **ASSESS**

- ❖ Create a Detailed Assessment for all parts of your building, equipment – Create ideal Education Plan

❖ Phase 2: **PRIORITIZE**

- ❖ Translate Educational Needs into Facility Needs

❖ Phase 3: **PLAN**

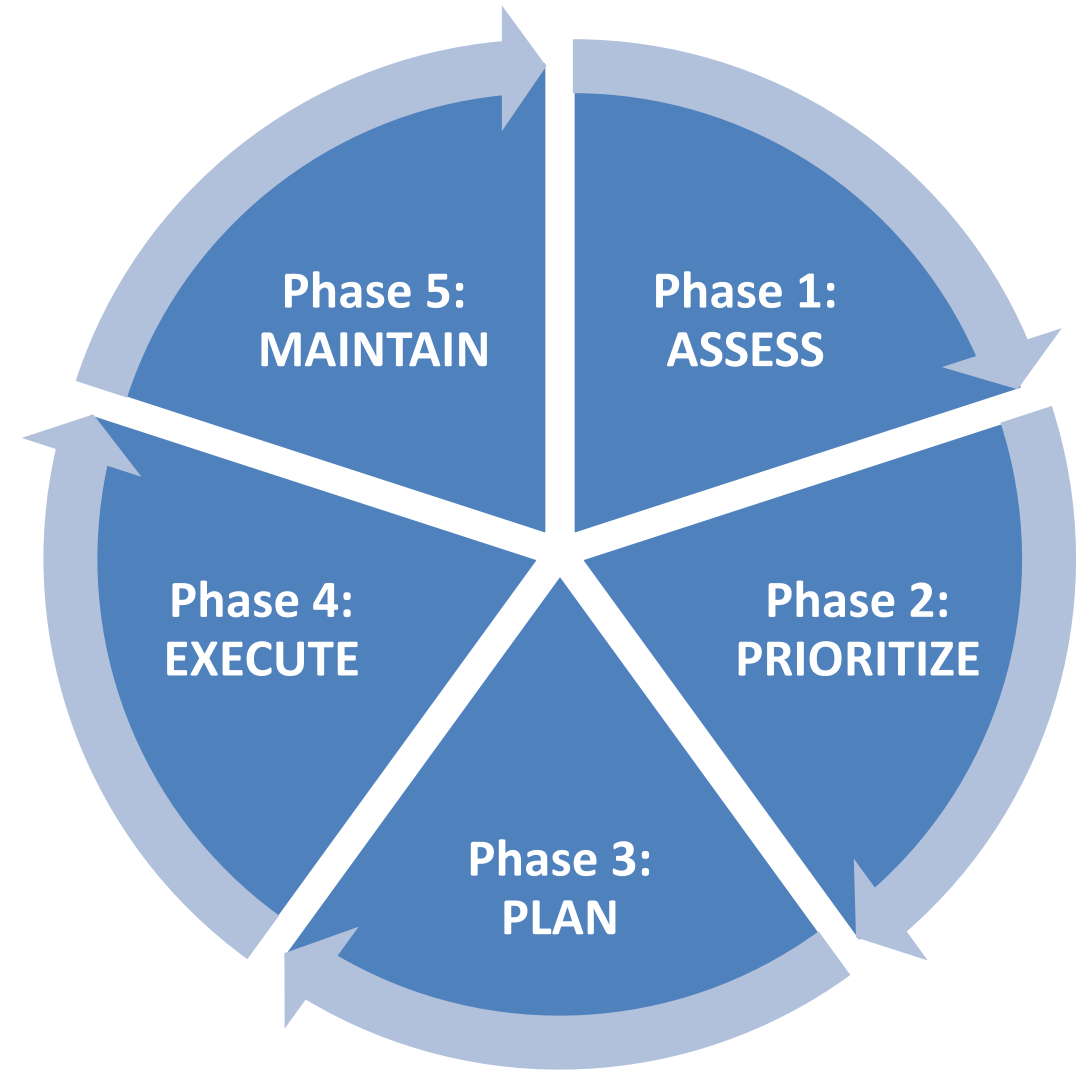
- ❖ Create a plan of action for all items on the list

❖ Phase 4: **EXECUTE**

- ❖ Put the plan in motion – complete projects

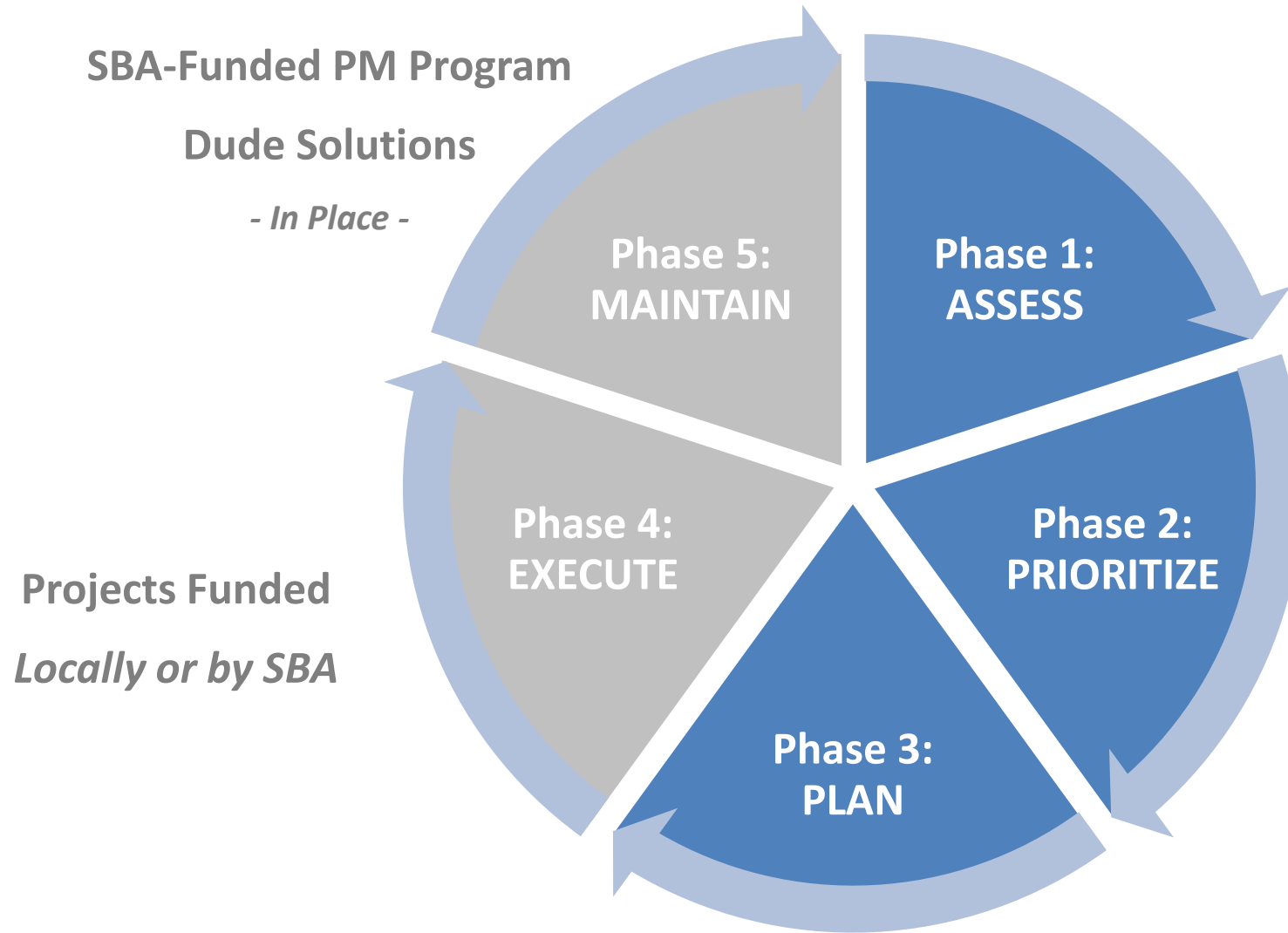
❖ Phase 5: **MAINTAIN**

- ❖ Keep your system up to date so you never start at zero again – Reactive Maint. to Preventative Maint.



And... Repeat!

The New Process – A Cycle of Success



This is the CEFP

Statewide Contractors

- ❖ Program Oversight – QA/QC
 - ❖ Mobilization
 - ❖ A/E & LEA Training
- ❖ Information Gathering Instruments
- ❖ Justification Capabilities
- ❖ Predictive Analysis
- ❖ Database to House Information - CEFPs



DUDE SOLUTIONS[®]
SchoolDude | FacilityDude | TheWorxHub

Statewide Contractors

- ❖ Facility Condition Assessment
 - ❖ Program Oversight
 - ❖ QA / QC
 - ❖ A/E Firm Training
 - ❖ Standardization & Quality
- ❖ Reports directly into Dude Solutions Platform



Phase 1



Phase 1

Phase 2

A/E FIRM

Evaluation and Inventory
of Existing Facilities

Resource / Consulting

STATEWIDE
CONTRACTORS

Standardization & Quality
Community Analysis
Enrollment Projections
Information Database

“Dude Solutions 360”
Prediction Software
“Capital Forecast Direct”

LOCAL EDUCATION AGENCY

Committees Meet
Evaluate Previous CEFP
Determine Goals
Create Educational Plan
Curriculum Plan
Instructional Plan
Operations Plan
Support Plan
Personnel Plan

Translating Educational
Needs into Facility Needs

Phase 1

Phase 2

Phase 3

A/E FIRM

Evaluation and Inventory of Existing Facilities

Resource / Consulting

Project Cost Estimating

STATEWIDE CONTRACTORS

Standardization & Quality
Community Analysis
Enrollment Projections
Information Database

“Dude Solutions 360”
Prediction Software
“Capital Forecast Direct”

Justification Capabilities
“Dude Intelligence”

LOCAL EDUCATION AGENCY

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Translating Educational Needs into Facility Needs

Project Priority List
Finance Plans
Community Meetings

Phase 1

Phase 2

Phase 3

A/E FIRM

Evaluation and Inventory of Existing Facilities

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Digital 2020 CEFP

STATEWIDE CONTRACTORS

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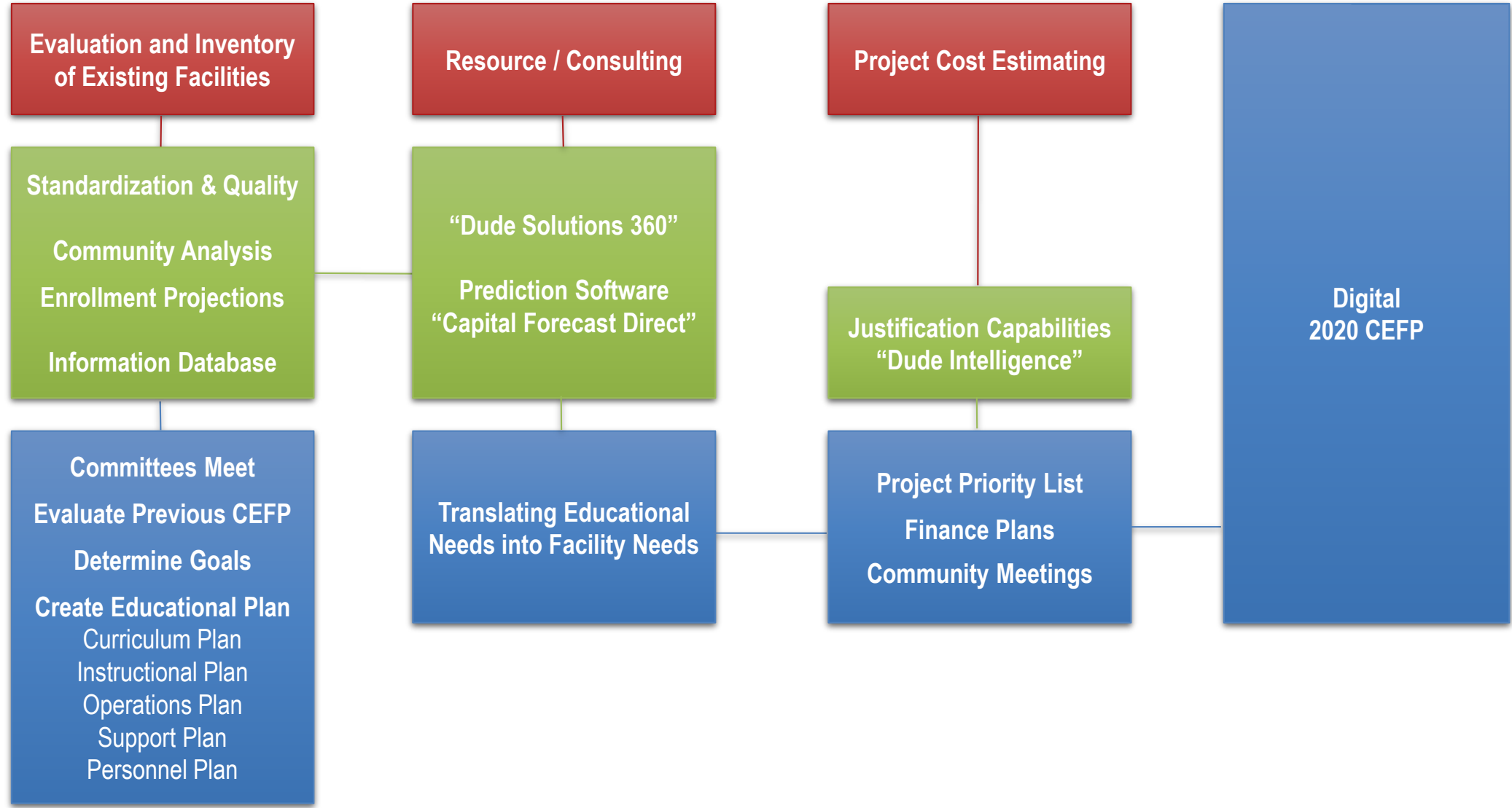
Justification Capabilities
“Dude Intelligence”

LOCAL EDUCATION AGENCY

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Phase 1

A/E FIRM

Evaluation and Inventory of Existing Facilities

STATEWIDE CONTRACTORS

Standardization & Quality Information Database

School Building Authority of West Virginia SBA Form 134 Data Collection Form Campus Information Sheet									
7	Full AE Firm Name		Original Construction Yr.		<div style="text-align: center;"> <p>School Photo</p>  <p>Insert Photo Here</p> </div>				
8	County Name		Assessment Date						
9	Campus Name								
10	Campus Type								
11	LEA ID								
Site Level Deficiencies									
	System	Material	Year Installed if different from Building	Condition	Notes	Message			
17	Pedestrian Pavements								
18	Site Pavements - Parking								
Permanent Buildings									
Record	Building Name	Predominant Building Type	Include building in Assessment	Year Built	GSF	Basement (Y/N)	# Floors (incl. Bsmt)	Message	
23	1								
24	2								
25	3								
26	4								
27	5								
28	6								
29	7								
30	8								
31	9								
32	10								
33	Total GSF:								
Portable Buildings									
Record	Building Name	Year Installed	GSF	Message					
38	1								
39	2								
40	3								
41	4								
42	5								
43	6								
44	7								

Phase 1



- ❖ Establishing Facility Indexes – Statewide Consistency
 - ❖ Building Program Utilization
 - ❖ Facility Condition Index (FCI)
 - ❖ Energy Usage Index (EUI)

Phase 1

A/E FIRM

Evaluation and Inventory
of Existing Facilities

STATEWIDE
CONTRACTORS

Standardization & Quality

Information Database

❖ Building Program Utilization

**Student Enrollment
(Current, Projected, or Design)**



**Building Capacity
(Based on Educational Program)**

**= 85%
(Desired Target)**

Phase 1

A/E FIRM

Evaluation and Inventory
of Existing Facilities

STATEWIDE
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Standardization & Quality

Information Database

❖ Facility Condition Index (FCI)

**Cost of Facility Improvements
(to meet all Codes & Standards)**

**Replacement Cost of Facility
(SBA Funding Formula)**

**= 60
(Lower = Better)**

Phase 1

A/E FIRM

Evaluation and Inventory
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STATEWIDE
CONTRACTORS

Standardization & Quality

Information Database

❖ Energy Usage Index (EUI)

Facility Energy Consumption per Year
(Converted to BTU)

$$\frac{\text{Facility Energy Consumption per Year (Converted to BTU)}}{\text{“Conditioned” Building Square Footage}} = 45$$

(Lower = Better)



Phase 1

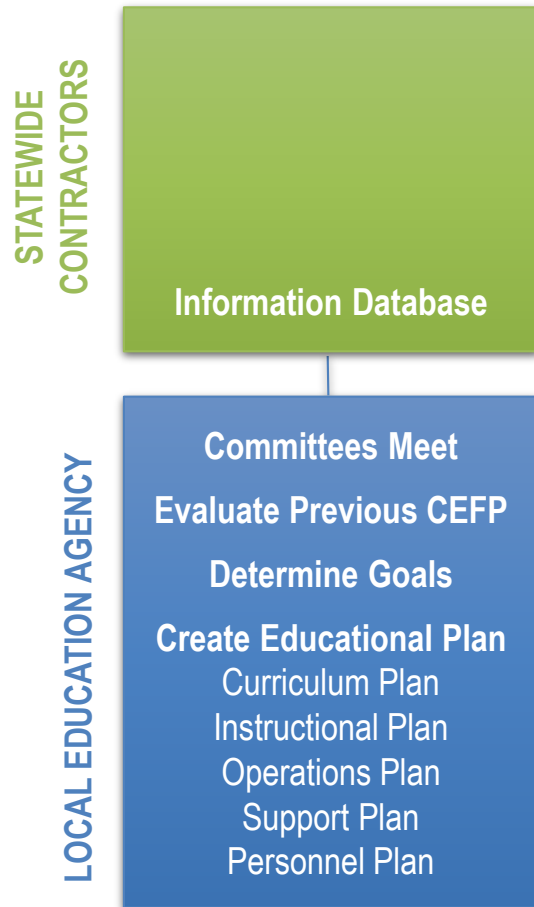
STATEWIDE
CONTRACTORS

Community Analysis
Enrollment Projections
Information Database

- ❖ Source Data – Statewide Consistency
- ❖ Community Analysis & Enrollment Projections



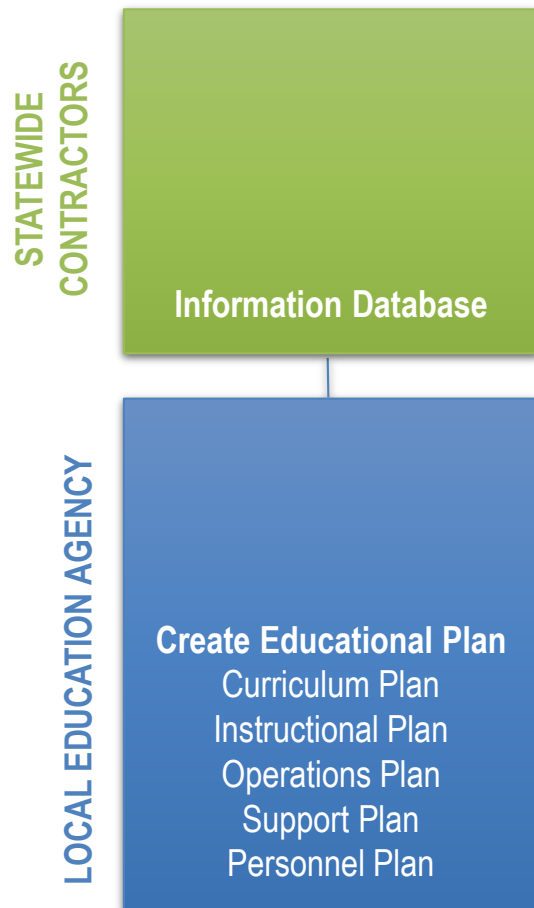
Phase 1



❖ County Responsibilities

- ❖ Create CEFP Committees / Sub Committees
- ❖ Establish Executive Comm.
- ❖ Designate a Point of Contact
- ❖ Evaluate Previous CEFP
- ❖ Create 2020 CEFP Goals & Objectives
- ❖ Create **Education Plan**

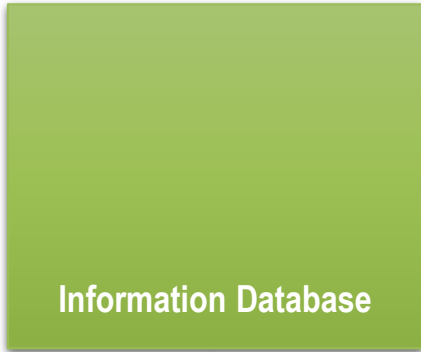
Phase 1



- ❖ **The Education Plan** – Drives the Need for Spaces
 - ❖ Create Goals & Objectives
 - ❖ Think Ideally about all phases of Educational Delivery
 - ❖ How to boost student achievement, teacher success?
 - ❖ Not about which school to renovate, close
- ❖ WVBE – Asks the Questions & Sets the Standards
- ❖ SBA – Facilitates Data Gathering
- ❖ Dude Solutions – Gathers & Houses Data

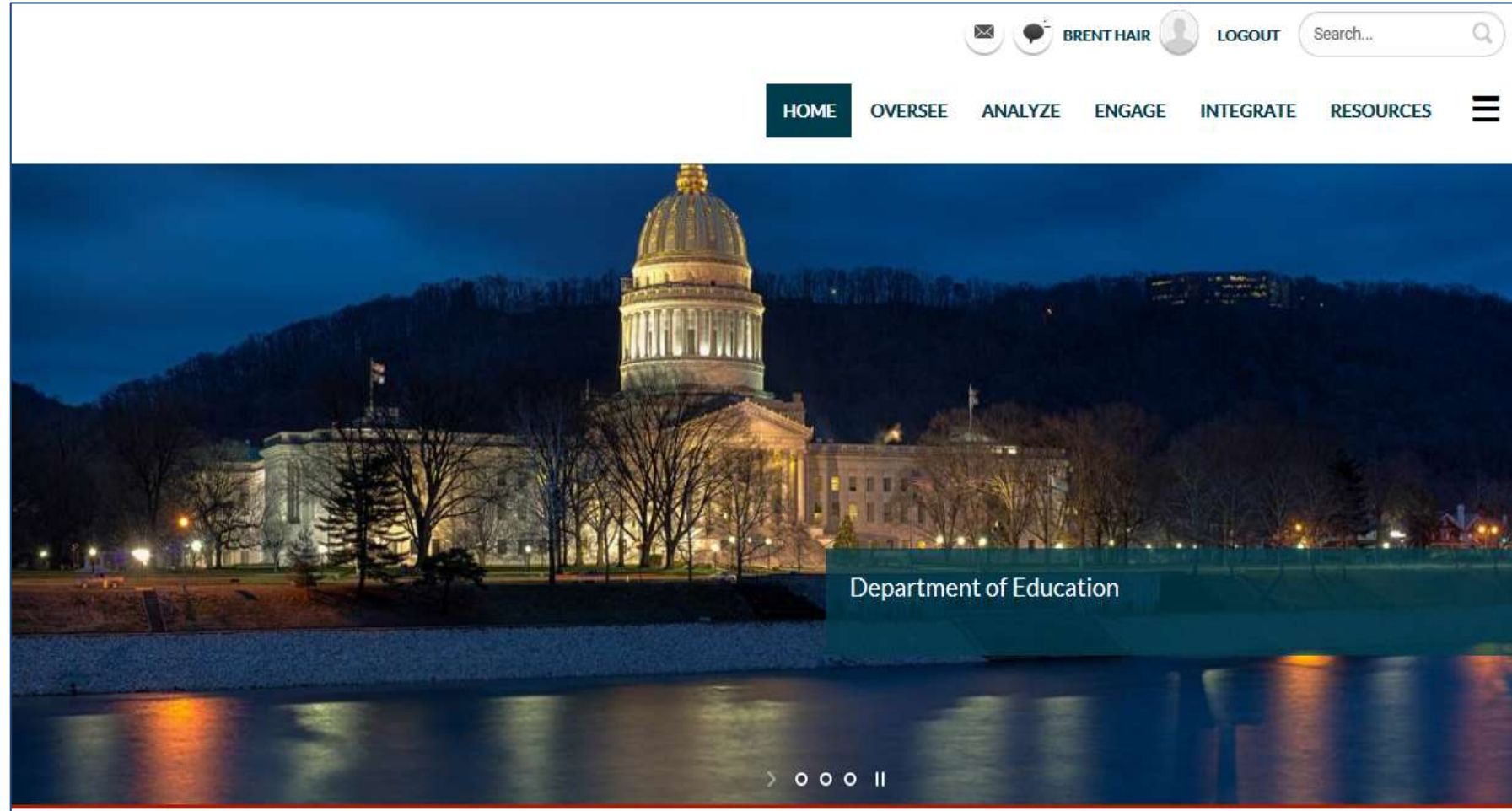
Phase 1

STATEWIDE
CONTRACTORS



LOCAL EDUCATION AGENCY

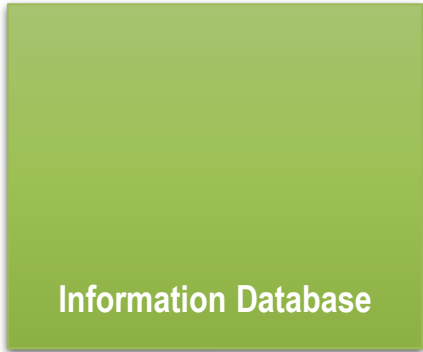
- Committees Meet
- Evaluate Previous CEFP
- Determine Goals
- Create Educational Plan
 - Curriculum Plan
 - Instructional Plan
 - Operations Plan
 - Support Plan
 - Personnel Plan



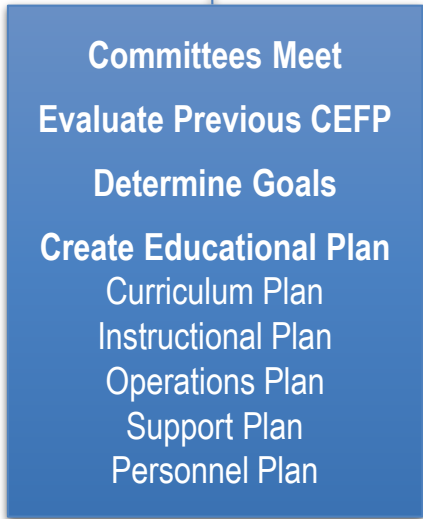
❖ Housed in **Dude Solutions 360** Information Database

Phase 1

STATEWIDE CONTRACTORS



LOCAL EDUCATION AGENCY



NOTE: Membership to this site is private.

Once your account registration request has been submitted, the Site Administrator will be notified and your application will be subjected to a screening process. If your application is authorized, you will receive notification that you can access the site.

**All fields marked with an asterisk are required.*

USER INFORMATION

*First Name	<input type="text"/>	*Last Name	<input type="text"/>
*Email	<input type="text"/>	*Who Are You	Please Select
*Password	<input type="password"/>	*Password Confirm	<input type="password"/>

PROFILE INFORMATION

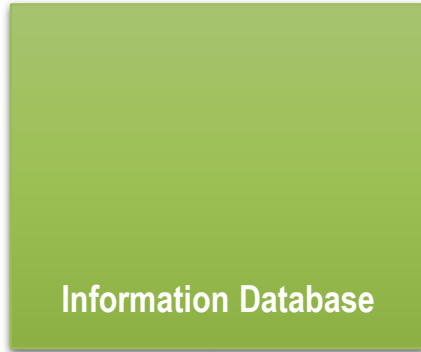
Organization Name	school district, county office, governr	Title	<input type="text"/>
Website	<input type="text"/>	Telephone	(201) 555-0123
Address	<input type="text"/>		
City	<input type="text"/>	State	West Virginia
*County	<input type="text"/>	Postal Code	<input type="text"/>
Country	United States		

I'm not a robot

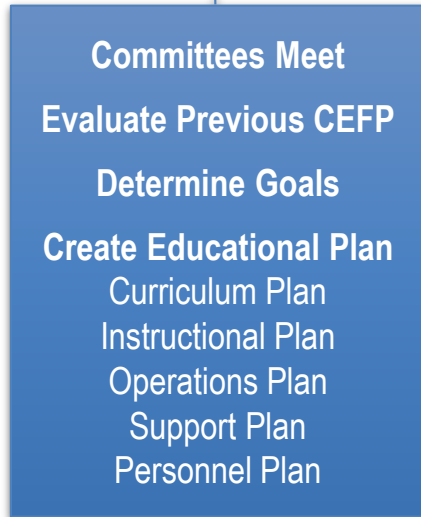
Register

Phase 1



















STATEWIDE
CONTRACTORS



LOCAL EDUCATION AGENCY

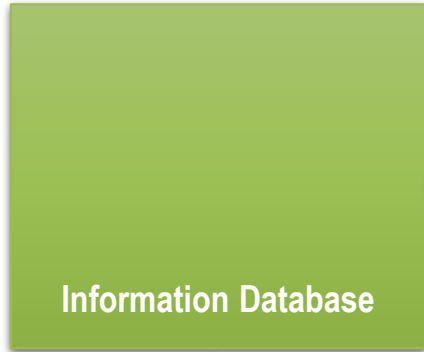


The screenshot shows the 'Users' management page in the Dude Solutions application. The interface includes a sidebar with navigation icons, a header with the 'Dude Solutions' logo and an 'Add User' button, and a main content area with a table of users. The table has columns for NAME, EMAIL, and JOINED, and includes a search bar and a 'Show: Authorized' filter.

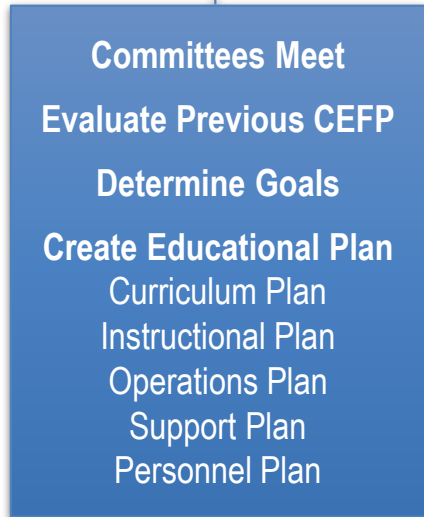
NAME	EMAIL	JOINED	
 DNN Support dnn.support	dnn.support@dude...	02/05/2019	    
 Steve Roth 01 sroth	steve.roth@dudes...	02/04/2019	    
 Scott Carpenter scarpenter	scott.carpenter@d...	02/04/2019	    

Phase 1

STATEWIDE
CONTRACTORS



LOCAL EDUCATION AGENCY



HOME OVERSEE ANALYZE ENGAGE INTEGRATE RESOURCES

Oversee / Master Planning / My CEFP Documents

My CEFP Documents

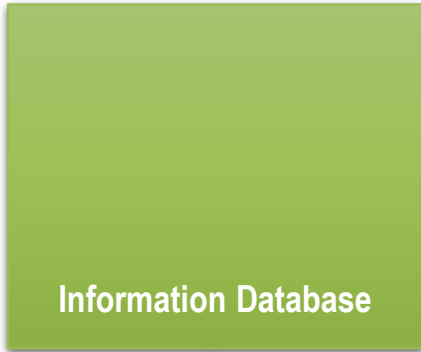
Berkeley County

Main Folder	Sub Folder: -	File Name	Size	Version	
Berkeley County	2010 CEFP	100.00 Background.docx	63.92 KB	1	Edit Rename Delete Backups
Berkeley County	2010 CEFP	100.01 Goals.docx	64.56 KB	1	Edit Rename Delete Backups
Berkeley County	2010 CEFP	100.11 Community.docx	5.2 MB	1	Edit Rename Delete Backups
Berkeley County	2010 CEFP	100.15 Improvement.docx	73.62 KB	1	Edit Rename Delete Backups

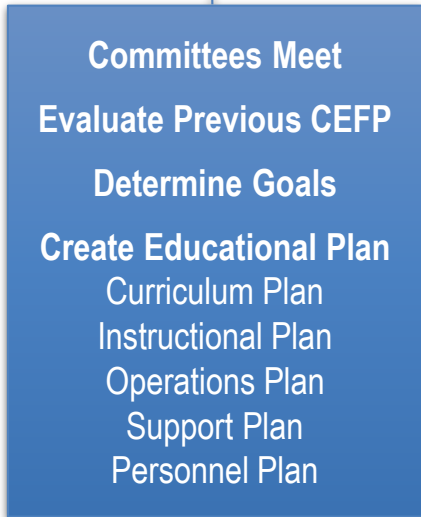
Create File Upload File

Phase 1

STATEWIDE
CONTRACTORS

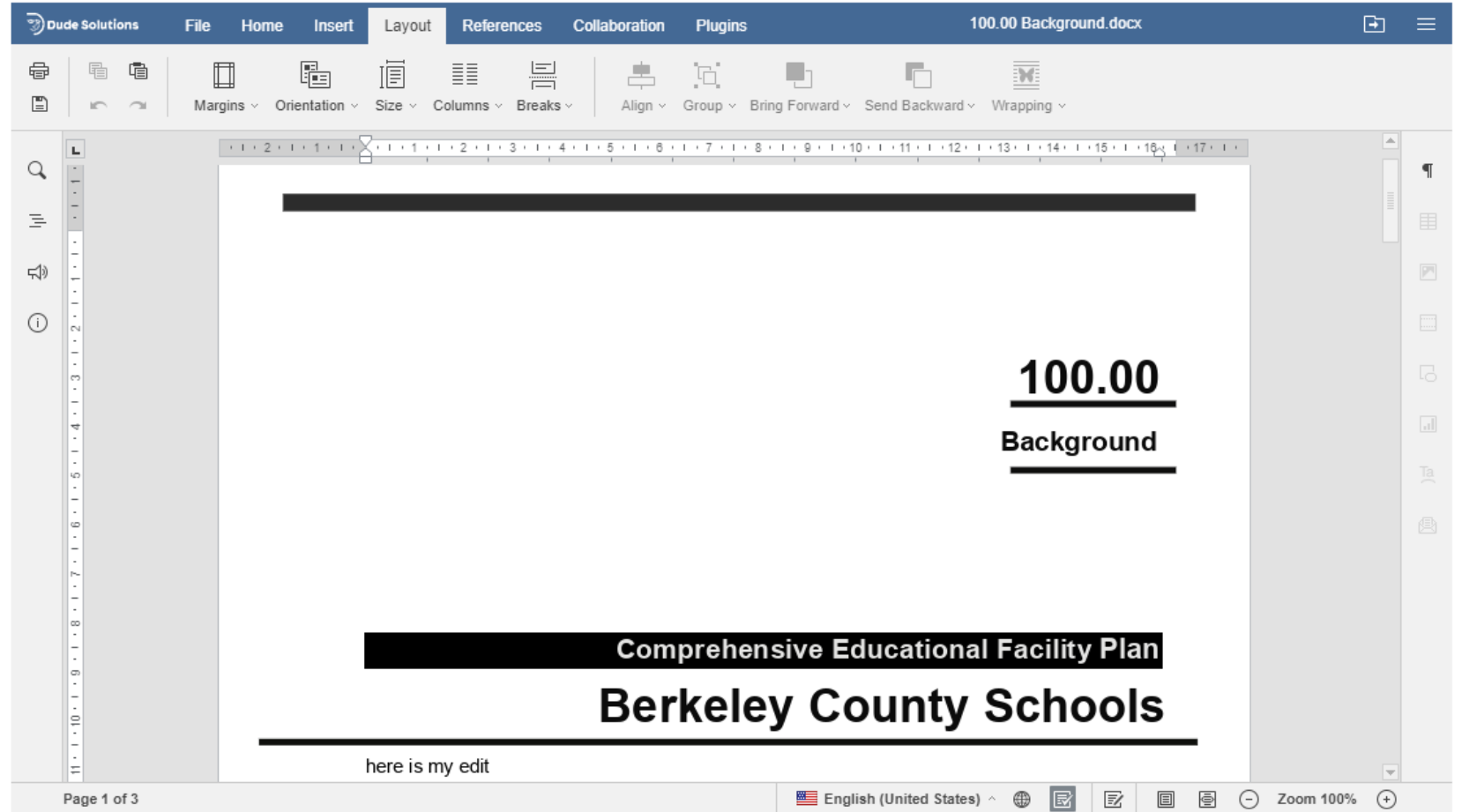


LOCAL EDUCATION AGENCY



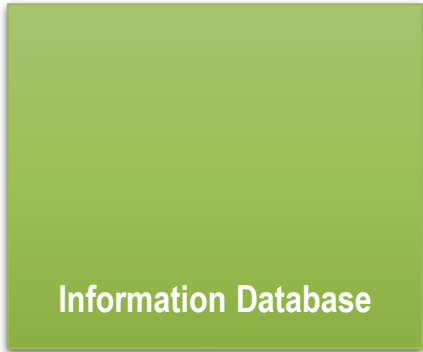
Oversee / Master Planning / My CEFP Documents / CEFP Editor

CEFP Editor

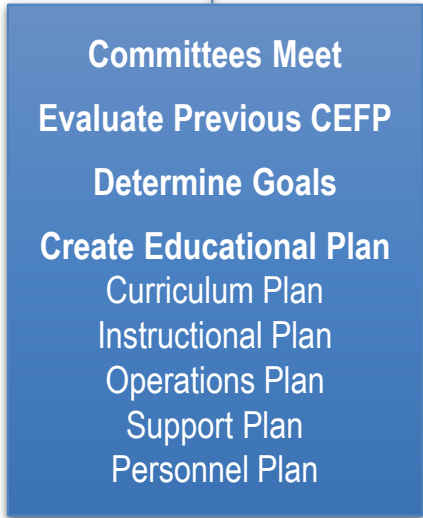


Phase 1

STATEWIDE
CONTRACTORS



LOCAL EDUCATION AGENCY



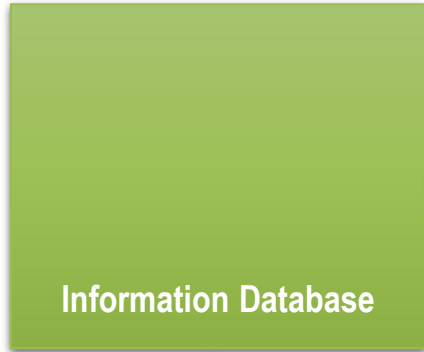
HOME OVERSEE ▾ ANALYZE ▾ ENGAGE ▾ INTEGRATE RESOURCES ▾

Engage
Engage

- IDEAS
- ANSWERS
- DOCUMENTS
- DISCUSSIONS
- DUDE LEARN
- BLOG

Phase 1

STATEWIDE
CONTRACTORS



LOCAL EDUCATION AGENCY

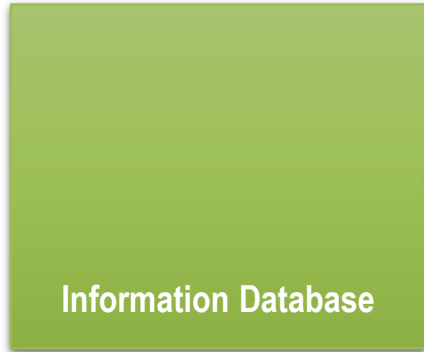
- Committees Meet
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A screenshot of a web application interface titled "Discussions". The interface includes a navigation bar with links for HOME, OVERSEE, ANALYZE, ENGAGE, INTEGRATE, and RESOURCES. A sidebar on the left contains icons for home, list, search, refresh, and settings. The main content area features a "FIND A TOPIC..." search box with a "Search topics" button and a "Start topic" link. Below the search box are filter tabs for "All Topics", "Pinned Topics", "No Replies", "My Topics", and "My Replies". There are also input fields for "Filter by tag" and "Sort by recent activity". A table displays a single topic: "Energy Savings through the Student Energy Manager Program" with 3 replies, 12 views, 0 likes, and last active 3 weeks ago. On the right side, there are sections for "Subscriptions" (Subscribe to new Topics), a user profile for "Brent Hair" (11 points, What's this?), and "My Questions (0)".

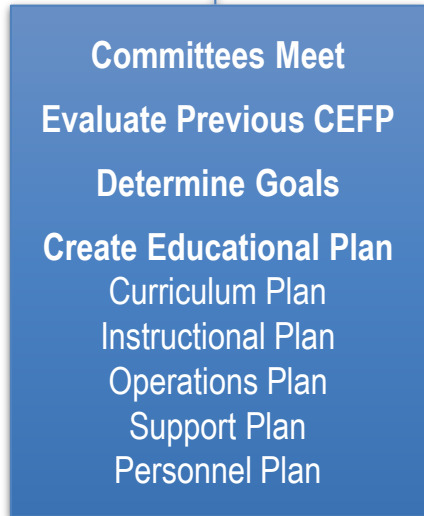
Title	Replies	Views	Likes	Last Active
Energy Savings through the Student Energy Manager Program	3	12	0	3 weeks ago

Phase 1

STATEWIDE
CONTRACTORS



LOCAL EDUCATION AGENCY



The screenshot shows a web application interface for 'Engage / Survey and Email'. The top navigation bar includes 'HOME', 'OVERSEE', 'ANALYZE', 'ENGAGE', 'INTEGRATE', and 'RESOURCES'. The user is logged in as 'BRENT HAIR'. The main content area has a red header with the title 'Survey and Email'. Below the header, there is a paragraph of text explaining the functionality: 'Community survey and e-mail is where you're able to send e-mail or surveys to select groups in the West Virginia School System's user community. It's here that you're able to communicate with community groups like County Administrators, Facility Personnel or Architects - keeping them informed on important information. You're also able to survey any group using the library of survey templates available to you in 360.' Below the text are two dropdown menus: 'What is it you'd like to send?' with 'Please Select' and 'Group' with 'None selected'.

Phase 1

Phase 2

Phase 3

A/E FIRM

Evaluation and Inventory of Existing Facilities

Resource / Consulting

Project Cost Estimating

Digital 2020 CEFP

STATEWIDE CONTRACTORS

Standardization & Quality
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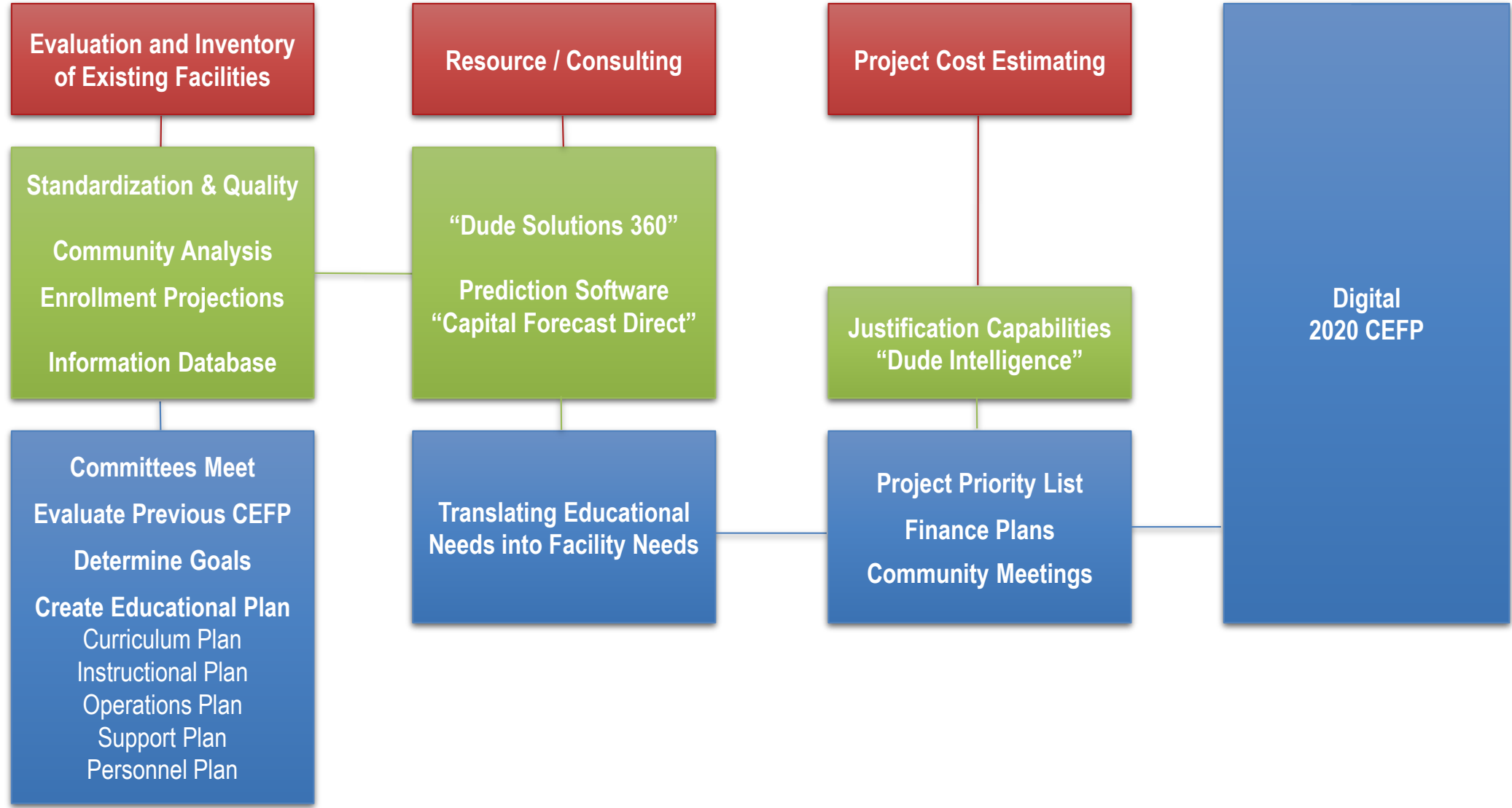
Justification Capabilities
“Dude Intelligence”

LOCAL EDUCATION AGENCY

Committees Meet
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Translating Educational Needs into Facility Needs

Project Priority List
Finance Plans
Community Meetings

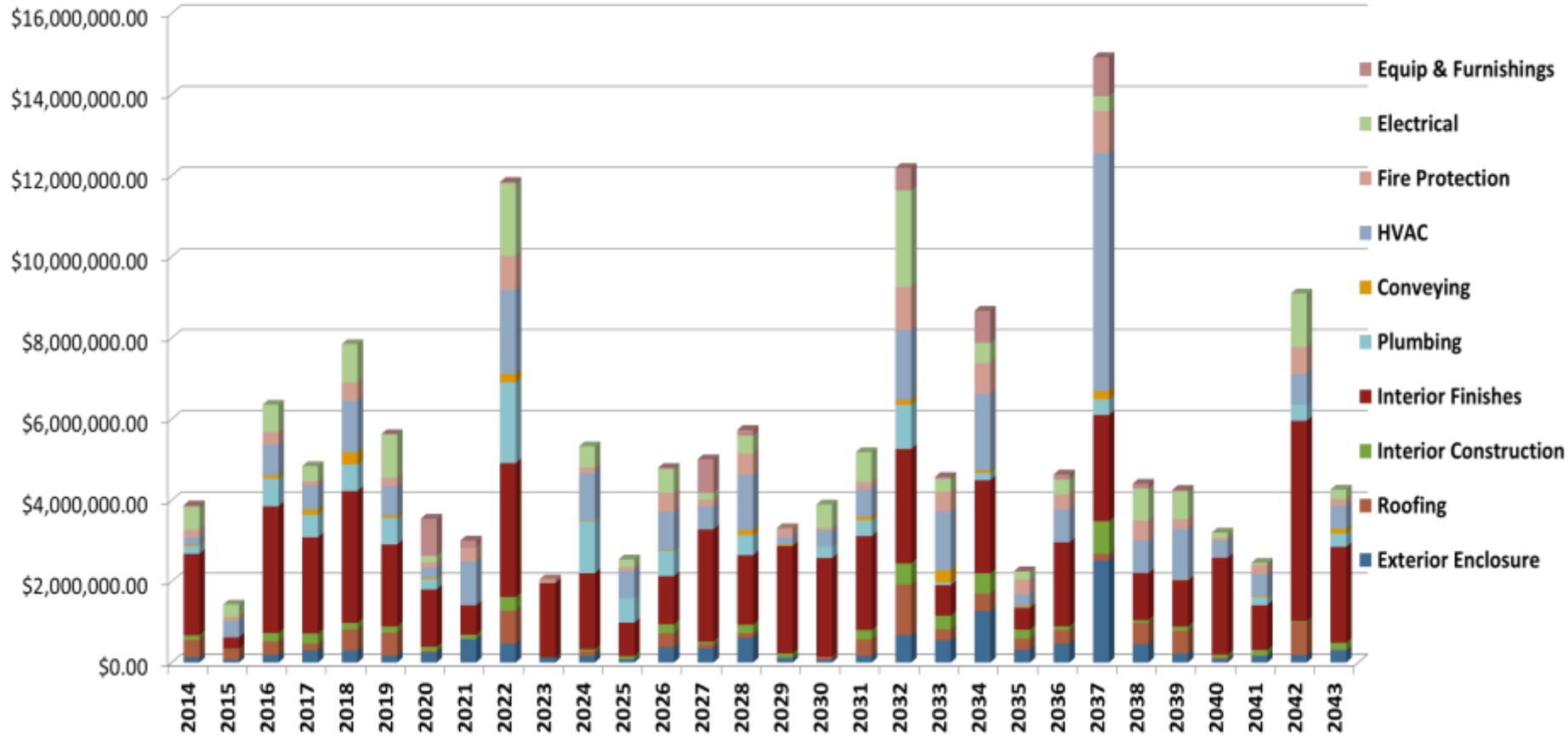


Phase 2

Resource / Consulting

“Dude Solutions 360”
Prediction Software
“Capital Forecast Direct”

Translating Educational
Needs into Facility Needs



Phase 3

Project Cost Estimating

Justification Capabilities
"Dude Intelligence"

Project Priority List
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Community Meetings

Counties Districts and Schools

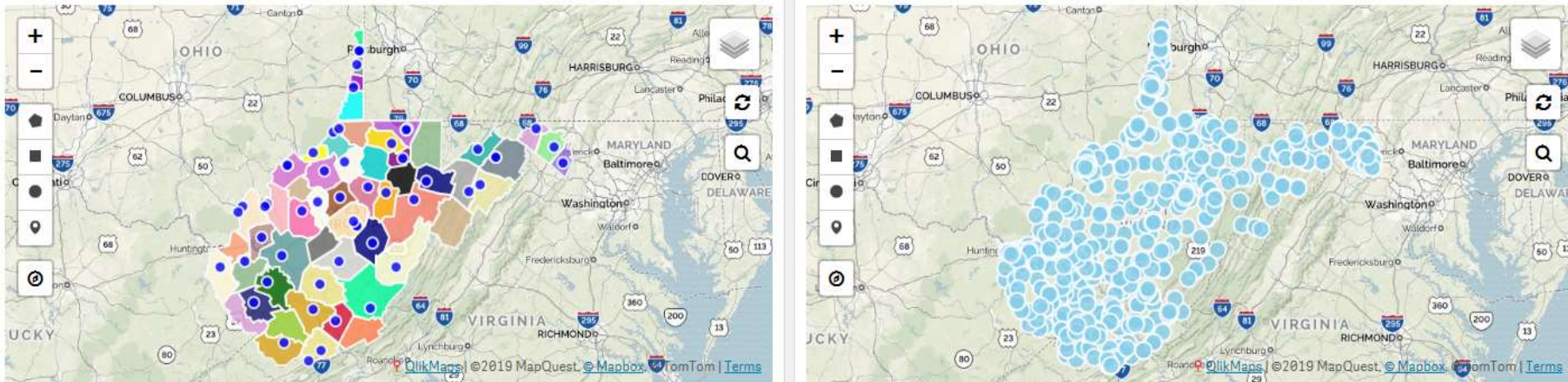
County School

Capital Forecast Summary Indicators

Counties	Schools	Enrollment	CFD Locations	Est Cost Overdue Needs	# Overdue Needs	Cost per SQFT of Overdue Needs	Cost Per Enrollment of Overdue Needs	CRV for Location	FCI for Location	Est Needs Per SQFT for next 15 years	Est Needs Per Enrollment for next 15 Years
----------	---------	------------	---------------	------------------------	-----------------	--------------------------------	--------------------------------------	------------------	------------------	--------------------------------------	--

Counties and Districts - Double click on a county to see all associated schools on the right map. Each point represents the district location.

Individual schools.



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Comprehensive Educational Facilities Planning - 2020

February 2019

A/E Procurement

April 2019

Project Rollout – LEAs & Architects

Forming Committees, Goals & Objectives, Educational Planning

Facility Condition Assessments

January 2020

“Translating Educational Needs into Facility Needs” Section

April 2020

Project Priority List, Finance Plans, & Public Hearings

July 2020

Local Board Approval

August 2020

Approval by WVDE & SBA

December 2020

Specific Needs Project Funding by SBA

Comprehensive Educational Facilities Planning

- ❖ Rather than a stagnant 3-ring binder on a shelf...
- ❖ Data is... Visible, Provable, Actionable



Data → Information → Knowledge → Insight

Questions?

Thank You!



**School Building Authority
OF WEST VIRGINIA**