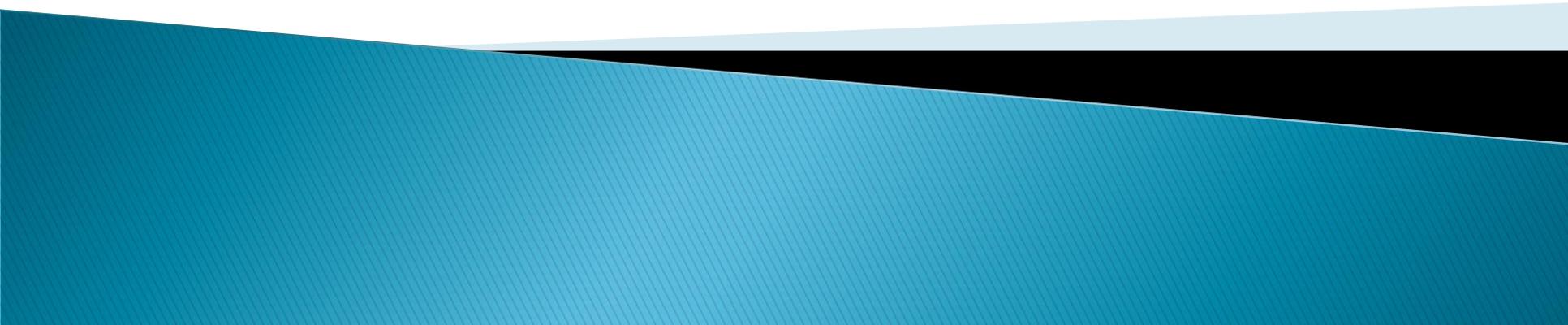


**A Vision Becoming a Reality:**  
**BRIDGING COMMUNITIES**  
**REGIONAL CAREER AND**  
**TECHNICAL EDUCATION**  
**CENTER**

**NEW KENT, VIRGINIA**

**May 24, 2012**



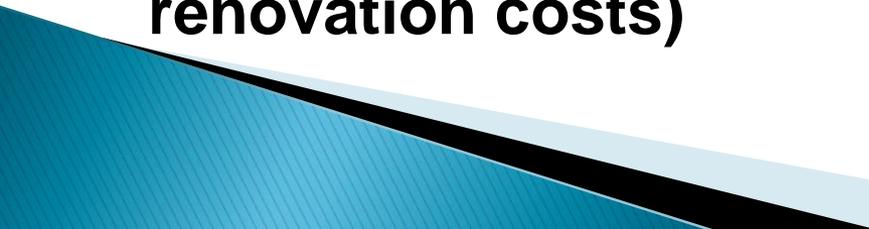
# Participating School Divisions

- Charles City County Public Schools
  - King and Queen County Public Schools
  - King William County Public Schools
  - Middlesex County Public Schools
  - New Kent County Public Schools
- 

# Our Current Reality...

**The Boards of Supervisors and School Boards for each of the five participating jurisdictions have passed Resolutions in support of the Bridging Communities Regional Career and Technical Education Center.**



- **In the Fall of 2011, members of the planning team met with and received full support from key CTE & Policy staff of the Virginia Department of Education for the Center**
  - **Two National Science Foundation Grants and one S.T.E.M. Academy grant have been completed and submitted; and we are in the process of submitting a Federal Secondary School Counselor Grant for CTE and Counselor Support of Bridging Communities**
  - **Completed budgets for the Center “start-up” process; and budgets for Year 1 and 2 operating budgets (including annual lease payments to offset renovation costs)**
- 

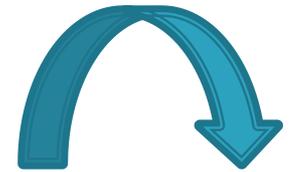
### Bridging Communities Technical Center

#### Preliminary Contribution Calculations

Initiated August 18, 2011

		Fall 2011 Enrollment					
Div No.	Division	Grade 9	Grade 10	Grade 11	Grade 12	Total	%
19	Charles City County	52	70	78	69	269	10.98%
50	King William County	169	174	154	144	641	26.15%
49	King and Queen County	56	62	71	48	237	9.67%
59	Middlesex County	74	99	94	119	386	15.75%
63	New Kent County	251	232	208	227	918	37.45%
		602	637	605	607	2,451	100.00%

		Startup Payment Due by 06/30/2014				Estimated FY12 Payment
Div No.	Division	\$5,000 Base	\$60 per FY11 Student Enrollment	Prior Contributions	Balance Due	
19	Charles City County	5,000	16,140	-	21,140	21,140
50	King William County	5,000	38,460	(20,000)	23,460	23,460
49	King and Queen County	5,000	14,220	(20,000)	(780)	(780)
59	Middlesex County	5,000	23,160	(20,000)	8,160	8,160
63	New Kent County	5,000	55,080	-	60,080	60,080
Total Start-up Contributions		25,000	147,060	(60,000)	112,060	112,060



	FY12 - FY14
Start Up Funds:	
RCC	104,400
KW (Initial Fiscal Agent)	43,000
Foundation	20,000
Start-up Contributions	112,060
Total Start-up Funds	\$ 279,460

#### SCENARIO SUMMARY

		\$ 3,572		\$ 3,389		<--- CPP	
Div. No.	Division	Year 1	Year 2	Enroll Δ	Tuition Yr 1	Tuition Yr 2	Dollar Δ
19	Charles City	11	19	8	\$ 39,290	\$ 64,392	\$ 25,103
50	King William	30	44	14	\$ 107,154	\$ 149,119	\$ 41,965
49	King & Queen	10	16	6	\$ 35,718	\$ 54,225	\$ 18,507
59	Middlesex	9	27	18	\$ 32,146	\$ 91,505	\$ 59,359
63	New Kent	42	63	21	\$ 150,015	\$ 213,511	\$ 63,496
Totals		102	169	67	\$ 364,322	\$ 572,753	\$ 208,431

<b>Class Size Adjustment</b>
0

\* NK rounded down to balance total

Base Class Sizes							
Culinary	Diesel	HVAC	Crim Just	STEM	Hlth	Modeling	Total
20	12	15	15	15	10	15	102

**REDUCE SLOTS SCENARIO- YEAR 1**  
**Bridging Communities Technical Center**

2012-2013 PROJECTED OPERATING BUDGET

	Seats	Tuition									Revised	4/3/2012
CC	11	\$ 39,290	COURSE LENGTH →	1	2	2	2	1	2		2	
KW	30	\$ 107,154	LOCATION	@NIHS	@MAINT	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5		CPP
K&Q	10	\$ 35,718	SECTIONS	1	1	1	1	1	1	1		\$ 3,572
M	9	\$ 32,146	ENROLLMENT →	20	12	15	15	15	10	15		102
NK	42	\$ 150,015	7 PROGRAMS		CULINARY	DIESEL	IMAC	CRIMINAL	PRE-ENG	HEALTH	MODELING	
	102	\$ 364,322	FTE	GENERAL	ARTS	TECH	TECH	JUSTICE	STEM	SCIENCES	SIMULATION	TOTALS
REVENUE	VPSA Technology			(26,000)								(26,000)
SALARIES	AVG:	\$ 42,172										
	ADMIN P/T		0.5	50,000								50,000
	CLERICAL P/T		0.5	12,000								12,000
	SUBSTITUTES (50 DAYS)		-	3,350								3,350
	INSTRUCTORS (MA - STEP 10)		3.5		26,977	21,086	21,086	21,086	21,086	21,086	21,086	153,493
					0.5	0.5	0.5	0.5	0.5	0.5	0.5	
EMPLOYEE BENEFITS		\$ 14,617	AVG	6,466	8,482	7,309	7,309	7,309	7,309	7,309	7,309	58,799
												-
PURCHASED SERVICES												-
	PROF DEVELOPMENT			2,000								2,000
	CUSTODIAL SERVICES			12,000								12,000
	PRINTING SERVICES			500								500
	COPIER MAINTENANCE			3,600								3,600
INTERNAL SERVICES												-
	TECHNOLOGY SUPPORT			2,000								2,000
OTHER CHARGES												-
	INSURANCE			5,000								5,000
	ELECTRICITY			20,000								20,000
	WATER			5,000								5,000
	TELEPHONE			-								-
	TRAVEL			2,000								2,000
	DUES/MEMBERSHIPS			2,000								2,000
SUPPLIES/MATERIALS												-
	OFFICE SUPPLIES			2,000								2,000
	INSTRUCTIONAL SUPPLIES				1,800	1,780	1,050	1,350	1,350	900	1,350	9,580
	TEXTBOOKS				-	-	-	-	-	-	-	-
	SOFTWARE				-	-	-	-	1,000	-	1,000	2,000
	NONCAP EQUIPMENT			3,000	-	-	-	-	1,000	-	1,000	5,000
CAPITAL OUTLAY												-
	EQUIPMENT ADDITIONS			-								-
	EQUIPMENT REPLACEMENT			-								-
	BUILDING LEASE PAYMENTS			30,000								30,000
CONTINGENCY												-
	CONTINGENCY			10,000								10,000
GRAND TOTAL												\$ 364,322

**REDUCE SLOTS SCENARIO- YEAR 2**

**Bridging Communities Technical Center**

**2013-2014 PROJECTED OPERATING BUDGET**

	Seats	Tuition										Rev 5/2/12
CC	19	\$ 64,392	COURSE LENGTH →	1	2	2	2	1	2	2		
KW	44	\$ 149,119	LOCATION	@NIHS	@MAINT	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5		CPP
K&Q	16	\$ 54,225	SECTIONS	1	2	2	2	1	2	2		\$ 3,389
M	27	\$ 91,505	ENROLLMENT →	20	24	30	30	15	20	30		169
NK	63	\$ 213,511	7 PROGRAMS									
	169	\$ 572,753	FTE	GENERAL	CULINARY	DIESEL	HVAC	CRIMINAL	PRE-ENG	HEALTH	MODELING	
				AVIS	TECH	TECH	JUSTICE	STEM	SCIENCES	SIMULATION	TOTALS	
<b>SALARIES</b>		42,172	avg									
ADMIN P/T			0.5	50,000								50,000
CLERICAL P/T			0.5	15,000								15,000
SUBSTITUTES (50 DAYS)			-	3,350								3,350
INSTRUCTORS (MA - STEP 10)			6.5		29,243	42,172	42,172	42,172	42,172	42,172	42,172	282,275
					0.5	1.0	1.0	1.0	1.0	1.0	1.0	
<b>EMPLOYEE BENEFITS</b>		14,617	avg	6,466	8,650	14,617	14,617	14,617	14,617	14,617	14,617	102,818
												-
<b>PURCHASED SERVICES</b>												-
PROF DEVELOPMENT				2,000								2,000
CUSTODIAL SERVICES				12,000								12,000
PRINTING SERVICES				500								500
COPIER MAINTENANCE				3,600								3,600
<b>INTERNAL SERVICES</b>												-
TECHNOLOGY SUPPORT				2,000								2,000
<b>OTHER CHARGES</b>												-
INSURANCE				5,000								
ELECTRICITY				20,000								20,000
WATER				5,000								5,000
TELEPHONE				-								-
TRAVEL				2,000								2,000
DUES/MEMBERSHIPS				2,000								2,000
<b>SUPPLIES/MATERIALS</b>												-
OFFICE SUPPLIES				2,000								2,000
INSTRUCTIONAL SUPPLIES					1,800	2,160	2,700	2,700	1,350	1,800	2,700	15,210
TEXTBOOKS												
SOFTWARE					-	-	-	-	1,000	-	1,000	2,000
NONCAP EQUIPMENT				3,000	-	-	2,000	-	2,000	2,000	2,000	11,000
<b>CAPITAL OUTLAY</b>												-
EQUIPMENT ADDITIONS				-								-
EQUIPMENT REPLACEMENT				-								-
BUILDING LEASE PAYMENTS				30,000								30,000
<b>CONTINGENCY</b>												-
CONTINGENCY				10,000								10,000
<b>GRAND TOTAL</b>												\$ 572,753

➤ **Broad support for the Center continues to grow....**

- **New Kent Chambers of Commerce**
- **Prospective business partners & employers**
- **Rappahannock Community College**
- **J. Sargeant Reynolds Community College**
- **Dominion Power Services, Inc.**

*Working together every step of the way*



BRIDGING  
COMMUNITIES  
REGIONAL CAREER AND  
TECHNICAL EDUCATION  
CENTER PROGRAMS



# Student Surveys

Over 1,000 students across the five participating school divisions have completed and submitted surveys indicating the primary programs in which they are interested in enrolling.

1. Engineering and Technology
2. Health Sciences – Therapeutic Services
3. Modeling and Simulation
4. Heating, Ventilation, Air Conditioning and Refrigeration (HVAC)
5. Criminal Justice
6. Diesel Equipment Technology
7. Culinary Arts I & II (Program located in New Kent High School)

# HIGH SKILL OCCUPATIONS = HIGH EXPECTATIONS



- Each program provides the opportunity to earn college credits leading a 2-year community college degree and industry certification
- Several of the programs have four year degree options
- Every student will earn at least one or more stackable credentials

# BRIDGING COMMUNITIES CENTER SCHEDULE

- Students will attend the center two hours each day five days a week. The remainder of the day will be in the home school.
- Junior year: morning at BCTC, afternoon at home school
- Senior year: morning at home school, afternoon at BCTC

# BCTC Program Description

# STEM – Engineering and Technology

- YEAR ONE – JUNIOR CLASS
- Introduce a variety of engineering occupations and careers
- Experience engineering design, modeling, and working on real-world problems



# STEM – Engineering and Technology

- YEAR TWO – SENIOR CLASS
  - Earn two dual enrollment credits that lead to a degree in Engineering Technology or Engineering.
  - Complete a community Service Learning project that students choose
- 

Expected salary range for engineering technology occupations and engineers is \$21,000 to \$121,000



# Health Sciences – Therapeutic Services

- Program for high school seniors
- Students will learn the nursing care of patients of all ages, in various stages of sickness
- Learn about human anatomy, disease conditions, pharmacology, nursing procedures and other topics
- Dual enrolled students will earn credit for four college classes leading toward LPN Nurse or Registered Nurse degrees



# Health Sciences – Therapeutic Services

- Students will complete a minimum of twenty hours of clinical experience. This required part of the program may be scheduled on Saturdays and/or after school
  - Students must earn a grade of 80 or better on all class work to continue in the post high school program
  - The summer after graduation students will enroll in Rappahannock Community College and complete clinical hours required for this program
- 

# Health Sciences – Therapeutic Services

- Students may take the Nurse Aide Licensure Exam after completing all clinical hours
  - Students are responsible for all program costs after high school graduation
  - Requirements for LPN can be met in one year after high school graduation
- 

LPN salaries range from \$27,000 to \$52,000  
Registered nurses can expect \$42,000 to  
\$87,000



# STEM – Modeling and Simulation

- Two year dual enrollment option program providing up to 25 college credits
- Learn to use software such as Adobe Photoshop, Illustrator and Dreamweaver to create Web pages and designs for digital applications



# STEM – Modeling and Simulation

- Use 3D software such as 3D studio MAX for modeling, creating motion and basic game design
  - Students will complete a Service Learning project during the second year of this program
  - Dual enrollment will enable students to complete this certificate program at Rappahannock in less than one year
- 

**Animators, Graphic designers, and multimedia artists salaries range from \$25,000 to \$72,000**



# Heating, Ventilation, Air Conditioning and Refrigeration (HVAC)



- A two year, dual enrollment program
- Learn about heat transfer, fluids, electrical and electronic theory and other HVAC essential knowledge
- Prepare to install, repair, and maintain heating, air conditioning and refrigeration systems
- Complete program and graduate from Rappahannock Community College in less than one year after high school

HVAC mechanics salaries range from \$24,000 to \$63,000 depending on experience and skill



# DIESEL EQUIPMENT TECHNOLOGY

- Two year dual enrollment program with J. Sargeant Reynolds Community College
- Learn to work on diesel truck electrical systems, power trains, air brakes, and fuel systems
- Learn essentials of hydraulics, pneumatics and diesel engine reconditioning
- Complete program at the Reynolds Goochland Campus in less than one year after high school graduation



Diesel specialists can expect to earn \$25,000 to \$62,000 depending on skill and experience



# Culinary Arts

- One year dual enrollment option program available for juniors or seniors
  - Students will practice the production and management skills used in commercial food establishments
  - Topics include nutrition, sanitation, food safety, and the use of commercial equipment
  - Learn to plan, select, store, prepare, and serve food and food products
- 

# Culinary Arts

- After graduation, students earning dual credit may complete the work experience parts of the Rappahannock Culinary Arts Certificate Program
- This program offers many occupational choices including chef, cook, baker, and food service manager



Salaries for culinary occupations range from \$22,000 to \$65,000 for skilled positions



# CRIMINAL JUSTICE – ADMINISTRATION OF JUSTICE

- Two year, dual enrollment option program
  - Possible career options include law enforcement, corrections and private security
  - Learn about crime prevention, collecting evidence, criminal investigations, and maintaining law and order
- 

# CRIMINAL JUSTICE – ADMINISTRATION OF JUSTICE

- Dual enrollment will enable students to complete the program and graduate from Rappahannock Community College in less than one year after high school graduation



# Salaries in Criminal Justice range from \$21,000 to \$76,000



# Bridging Communities Regional Career and Technical Center – ENROLLMENT

All programs except Diesel Technology offer students the option of earning dual enrollment (college) credit from Rappahannock Community College. All students enrolling in the Center will take the college placement tests. Students meeting minimum placement test scores will register as college students and earn college credit for Bridging Communities classes.



A Vision Becoming a Reality:

**BRIDGING COMMUNITIES  
REGIONAL CAREER AND  
TECHNICAL EDUCATION CENTER**

*Thank you for your consideration of the  
request to establish the center under the  
Code of Virginia, 22.1-26.*

