

---

# STATE OF STRONG WORKFORCE AT BC – PRESENTATION TO COLLEGE COUNCIL 11/17/2017

PREPARED BY: CINDY COLLIER,

CONTRIBUTORS: SARAH BARON, MANNY FERNANDEZ, JUSTIN FLINT, RONNIE KNABE, JOSH OTTUM

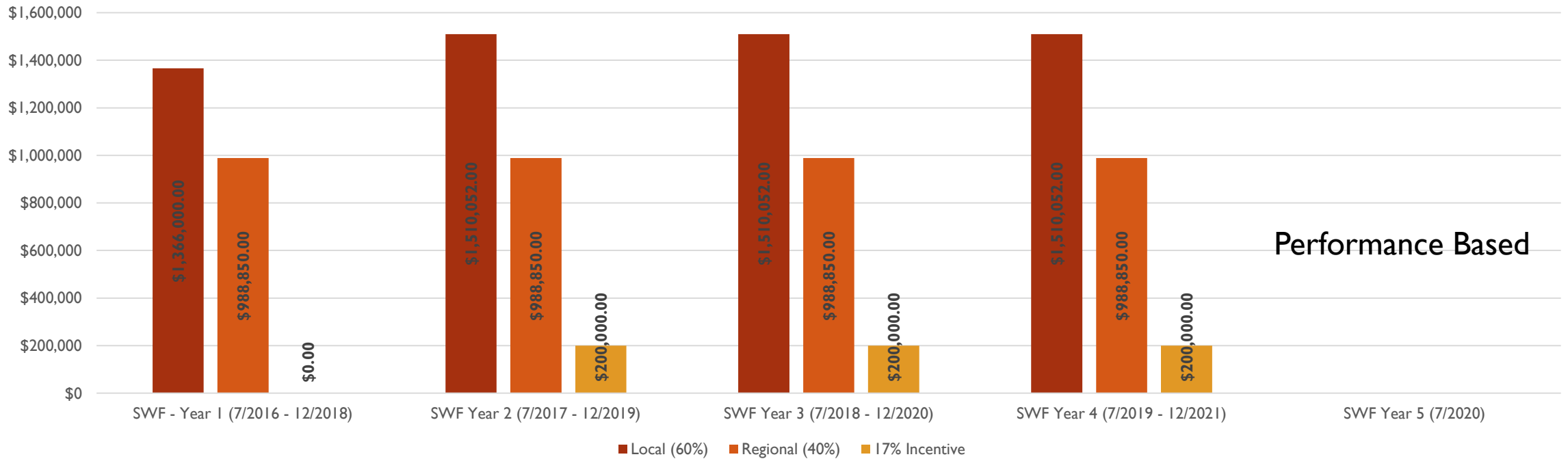


# PURPOSE OF STRONG WORKFORCE

- More and Better Career and Technical Education to Increase Social Mobility and Fuel Regional Economies with Skilled Workers
  - Develop more workforce opportunities
  - Lift low wage workers into living-wage jobs
- Specific Targets:
  - Student Success
  - Career Pathways
  - Workforce Data and Outcomes
  - Curriculum
  - Faculty
  - Regional Coordination
  - Funding

# LEGISLATURE INVESTS \$200 MILLION FOR COMMUNITY COLLEGES

BC Allocation



# SWF – YEAR I PROJECTS

## ■ Local Projects:

- Automotive Technology
- Computer Information Systems (Cybersecurity new program)
- Electronics/Electronic Technology
- Environmental Control Technology (HVAC, new program)
- Commercial Music
- Culinary
- Community Healthcare Worker (new program)
- Manufacturing

## ■ Regional Projects:

- Industrial Automation
- Health Simulation
- Dual Enrollment
- Work Based Learning – Internship Development
- Nursing Faculty Recruitment
- Advanced Manufacturing

# COMMERCIAL MUSIC

- <https://youtu.be/73kCtQCVhqA>



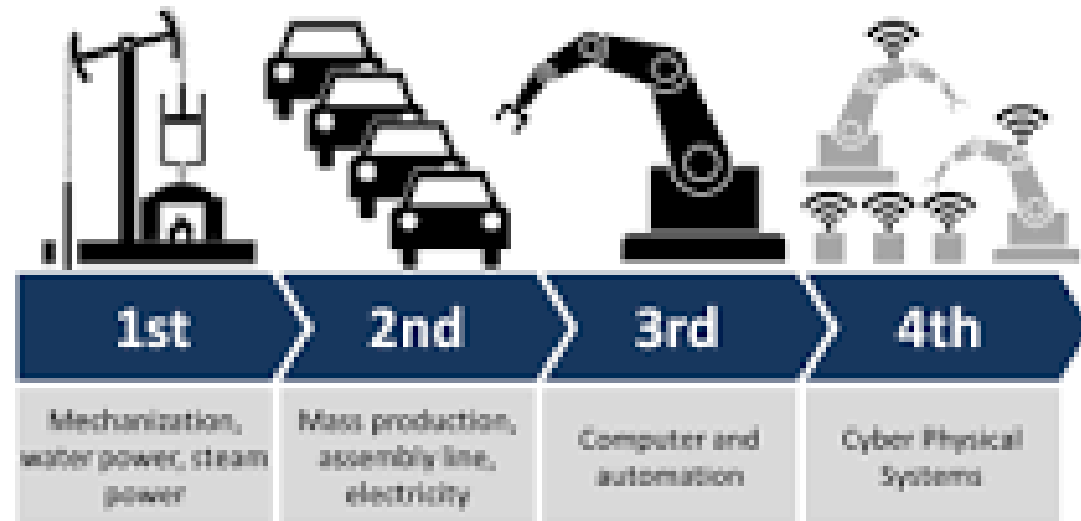
**BAKERSFIELD  
COLLEGE**

# INDUSTRIAL AUTOMATION – REGIONAL COLLABORATION



# INDUSTRY 4.0

- Major Project that spans across our SWF platforms.
- Modernize and Replacement of CIM Cell
- Incorporates
  - Internet of Things
  - Capstone Projects
  - Smart Factory



# INDUSTRY 4.0

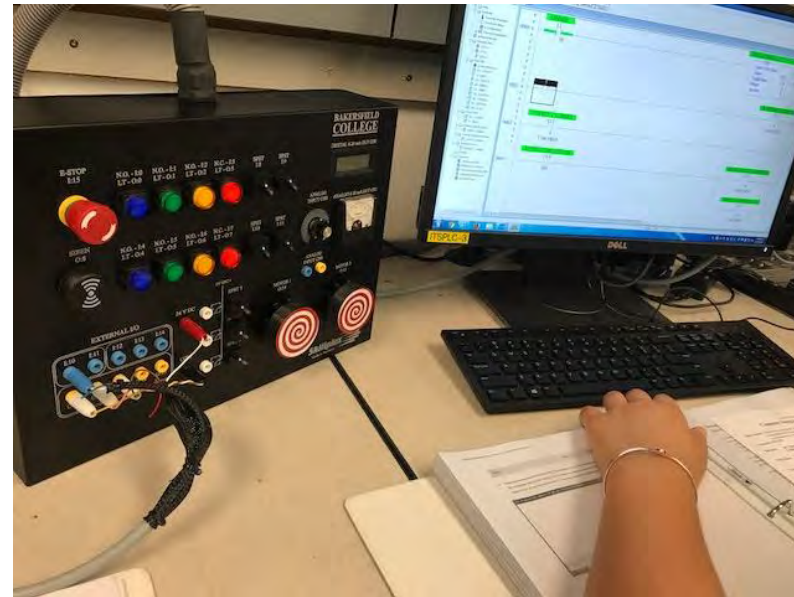
- Customized System
- Scheduled for delivery in April
- Will be used in Application Learning for concepts covered in:
  - ELET B4
  - ELET B56
  - ELET B61
  - INDA B120
  - INDA B122
- Stored in INDT 7A





# LOCAL ELECTRONICS

- Part of funds used for new Industry 4.0
- New PLC Trainers for Delano



# LOCAL AUTOMATION

- Part of funds used for new Industry 4.0
- Purchased motion control trainers for INDA B122
- Purchased Robotic Cert Carts for INDA B120
  - Needed to lower lab group size
  - Expand initial purchases



# REGIONAL AUTOMATION

- Part of funds used for new Industry 4.0
- New collaborative Robot and Gripper
- Vision systems for existing platforms
- Training of Faculty



# REGIONAL AUTOMATION-COURSES BEING IMPROVED

INDA B120  
Industrial Auto.  
Systems

**Robotics and specific automation processes and technology.**

INDA B110  
Industrial Auto.  
Networks

**Interconnection of automated devices as well as programming and design of display devices and panels.**

INDA B122  
Applied Methods of  
Motion and  
Process Control

**The application and programming of motor drive systems.**

**Advanced instrumentation topics.**

# PATIENT NAVIGATOR



- <https://www.youtube.com/watch?v=gfAPH6ZtCAk&feature=youtu.be>

# HEALTH SIMULATION – REGIONAL COLLABORATION



# HEALTH SIMULATION

Programs: RN, LVN, EMT, Paramedic

Automated Medication Dispensing/Barcode Scanning System -\$69,926

Portable Video System for Recording Skills Testing - \$22,095

Professional Development – Simulation Conference - \$1,200

Regional Simulation Group Meetings - \$1,400

Faculty Stipends for Regional Collaboration - \$2,400

Total: \$97,021



# HEALTH SIMULATION METRICS

## RN: Course Enrollments % Attained Living Wage

2016/17		2017/18	
F16 n = 60	F17 n = 62	F16 96%	S17 96%
S17 n = 60	S18 n = 62		

## Paramedic: Course Enrollments

2016/17	2017/18
24	26

## Certificate Earned

2016/17	2017/18
18	20

## VN: Course Enrollments Certificate Earned

2016/17		2017/18	
F16 n = 30	F17 n = 30	Cohort F15/F16 F16 n = 23	Cohort F16/F17 F17 n = pending

## EMT: Course Enrollments

2016/17	2017/18
280	300

## Certificate Earned

2016/17	2017/18
196	210



# BAKERSFIELD COLLEGE AUTOMOTIVE TECHNOLOGY



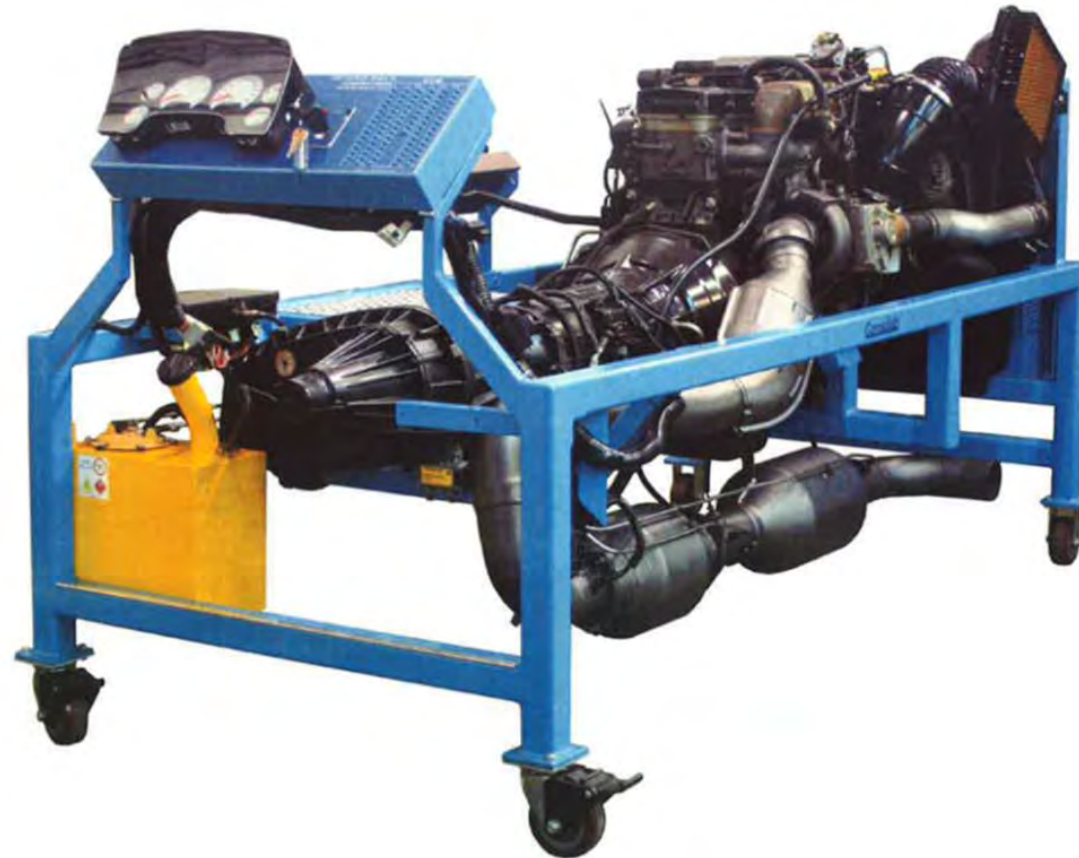
# 2011 FORD POWERSTROKE DIESEL



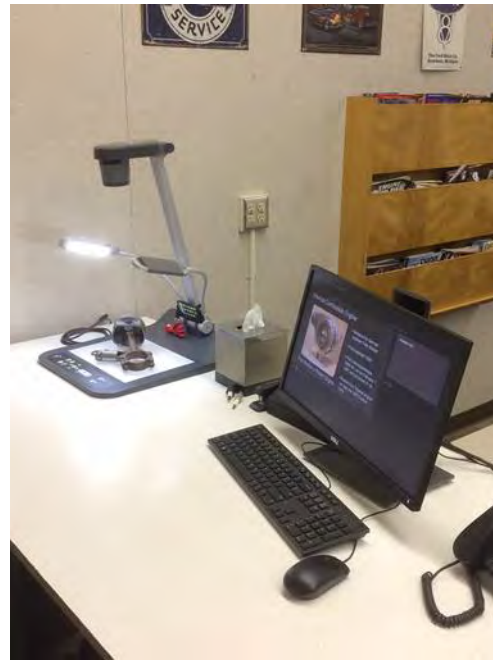
# 2011 GM DURAMAX DIESEL



# 2013 DODGE CUMMINS DIESEL



# CLASSROOM TECHNOLOGY UPGRADES IN ATI & 2



# CLASSROOM TECHNOLOGY UPGRADES IN IT3 & 4



# CLASSROOM REMODEL IT205



# FUTURE – SWF YEAR 2 AND 3 PROJECTS

- Continue SWF Year 1 projects
  - Industrial Automation
  - HVAC
  - Dual Enrollment
  - Health Simulation
  - Work Based Learning – Internship Development
- New Projects
  - Ag – Heavy Equipment Technician (New CoA)
  - Ag – Food Science (New AS-T with Food Safety CoA)