Harnessing Sustainability for Student Success at IL Community Colleges
Compared with 65 other top industrial countries, U.S. ranks 23rd in math and 31st in science.
IL testing far lower than the national average

40th place in NAEP Science Scores
21% HS senior proficient+ in science

26% HS senior proficient+ MATH

40% switch from science or engineering majors in the “THE MATH/SCIENCE DEATH MARCH”
“U.S. demand for engineers and scientists expected to increase 4x the rate of all other occupations.”

Bureau of Labor Statistics

STEM workers less likely to experience joblessness

% change in employment in occupations projected to grow fastest - 2018

<table>
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<th>STEM Percentage change in employment 2000-2012</th>
<th>0</th>
<th>15</th>
<th>30</th>
<th>45</th>
<th>60</th>
<th>75</th>
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<td>Computer software engineers, applications</td>
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<td>Computer software engineers, system software</td>
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<td>Medical records and health information technicians</td>
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The national average percent change is 10.12% for the 2008-2018 employment projection series.


1 Million U.S. Graduate Deficit

President’s Council of Advisors on Science and Technology
How do we envision our future?

- Competitive and innovative
- Set up students for success
Leverage sustainability for student success

- Financial solution
- Classroom technology
- Professional development
- Career opportunities
- Positive messaging
Contra Costa CCD
“Increasing opportunities, not tuition”

Freeing financial resources to reinvest in education
• $70 MM over 25 years. Equal to:
  • Payroll for 5 years
  • Vocational Programs
  • Infrastructure

Driving job preparedness in growing industries
• Resulted in increased enrollment in engineering programs across 3 campuses
San Mateo CCD
“Real world experience = a leg up in the job market”

State of the art learning environment
• Improved learning environment has been shown to increase participation, reduce absenteeism and increase matriculation

Living lab of facilities prepares students for job market
• Gives students an advantage by providing real-world experience that sets them up for employment upon graduation
Leveraging bond dollars to generate savings to reinvest in education
• Funded with bond dollars & over $5 million in incentives saves over $18 million in 25 years

Preparing local K12 for higher ed
• Engage with K-12 to prepare students for life at Los Positas
• Helps students understand potential career opportunities
JWCC Positive Messaging
“Helping constituents understand the benefits”

11,940 Acres

320 Cars
Living lab of facilities
COOK COUNTY, IL
CLASSROOM TECHNOLOGY

- STEM labs
  - Collaborative
  - Technology
WILL COUNTY, IL

PROFESSIONAL DEVELOPMENT

 Campus-wide sustainability training
 Integrate with existing and/or generate new curriculum
 Behavioral modification enhances savings
LAKE COUNTY, IL
CAREER OPPORTUNITIES

- Links real world opportunities to learning experiences
- Collaborative, hands-on opportunities
■ Classroom technology
■ Kiosks communicate benefits to constituents and students
Measure success:

- DOLLARS SAVED
- ENERGY CONSERVED
- STAFF TRAINED
- PROGRAMS GENERATED
- JOBS CREATED
- POSITIVE P.R.