



your digital future in
northeast wisconsin



Digital Opportunities in NEW Fox Valley Technical College June 11, 2018

Laura Schmidt

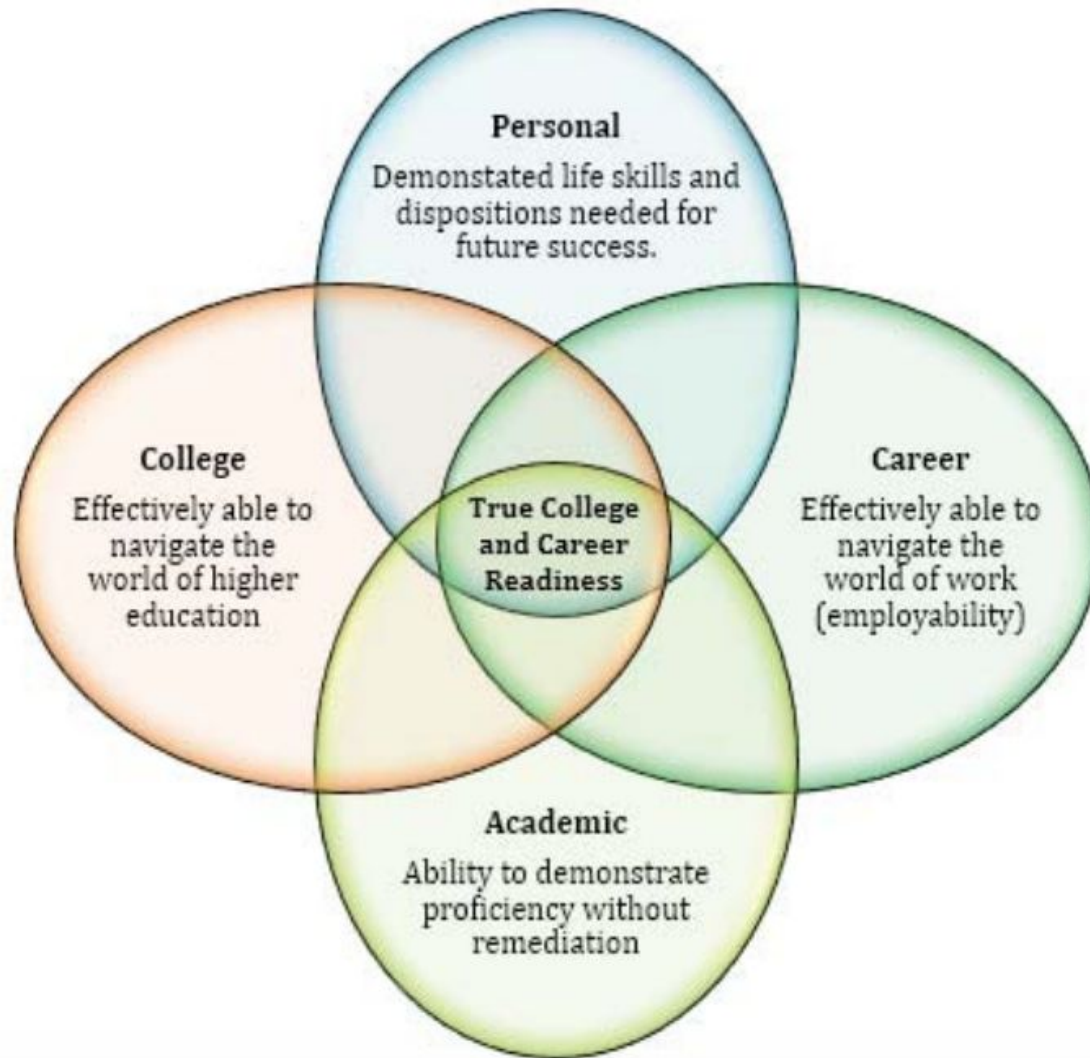
Strategic Advisor to the Superintendent

Growing “Tech” Talent: Regional Strategies



BEST PRACTICE

SDNB Case Study: Always Start With Why



Delivering the Vision of a College and Career Ready Graduate



“As a State, we need to go beyond the traditional measures of College and Career Readiness if our students are to succeed in the projected economy. It is our collective work to help students develop a diverse set of talents that can fuel innovation and job creation while supporting projected workforce needs. Academic and Career Planning is one of many important aspects of this work...”

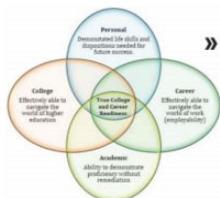
– SDNB Superintendent Joe Garza

School District of New Berlin's Journey

2012



» Joint Legislative Committee (2012)



2013

- » Charter “College & Career Readiness” Initiative (2013)
- » Define “Vision of SDNB Graduate” (2013)
- » Align Strategic Plan (2013)
 - Key message: Build upon foundation of academic success
- » Community Outreach – “Partners In Education” (2013)

2014



- » Deepen learning experiences in targeted areas (2014-2015)
 - Nursing Program
 - Information Technology Program
 - Manufacturing Foundations Program
- » Implement ACP scope and sequence G6-12 (2014-2015)
- » Student Campaign – “Own Your Voyage” (2014-2015)

2015

- » Deepen organization culture of ACP mentorship (2015-16)
 - Align school improvement plans
 - Building vs. district level leadership teams
 - Professional learning for all staff
 - Incorporate CCR ‘Dispositions’ in grading/reporting
 - Expand parent engagement efforts



- » Align related programs (2015-16)
 - Gifted and Talented
 - Special Education

- » Expand CCR “Data Dashboard” (2015-16)

- » Continuous Improvement (ongoing)

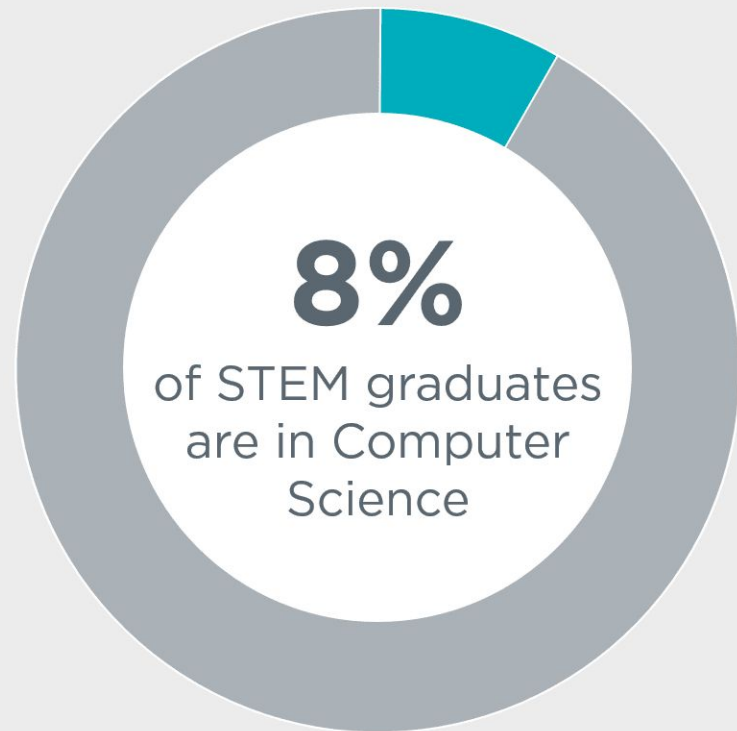
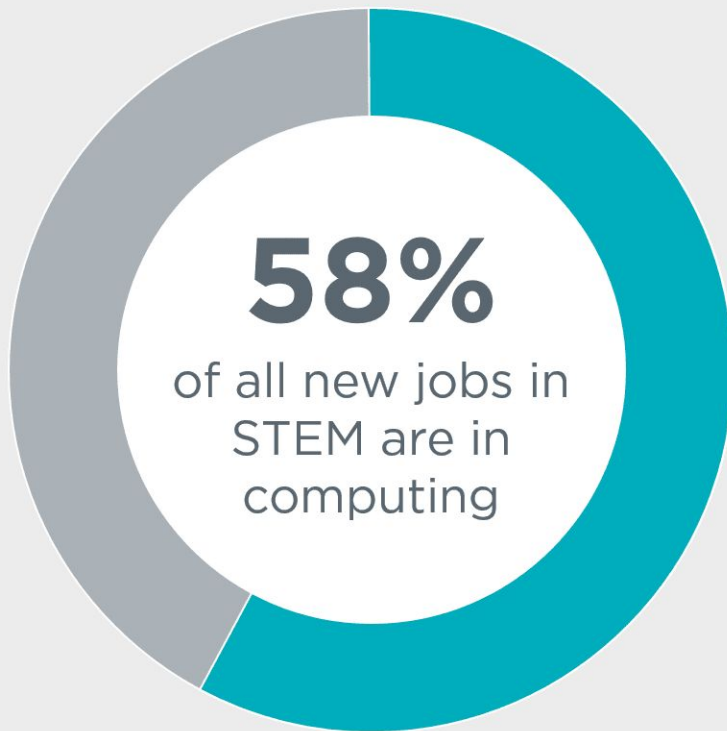
- » Regional/State advocacy to address perceived barriers (ongoing)

- » Assess infrastructure gaps, charter projects (2013-2015)

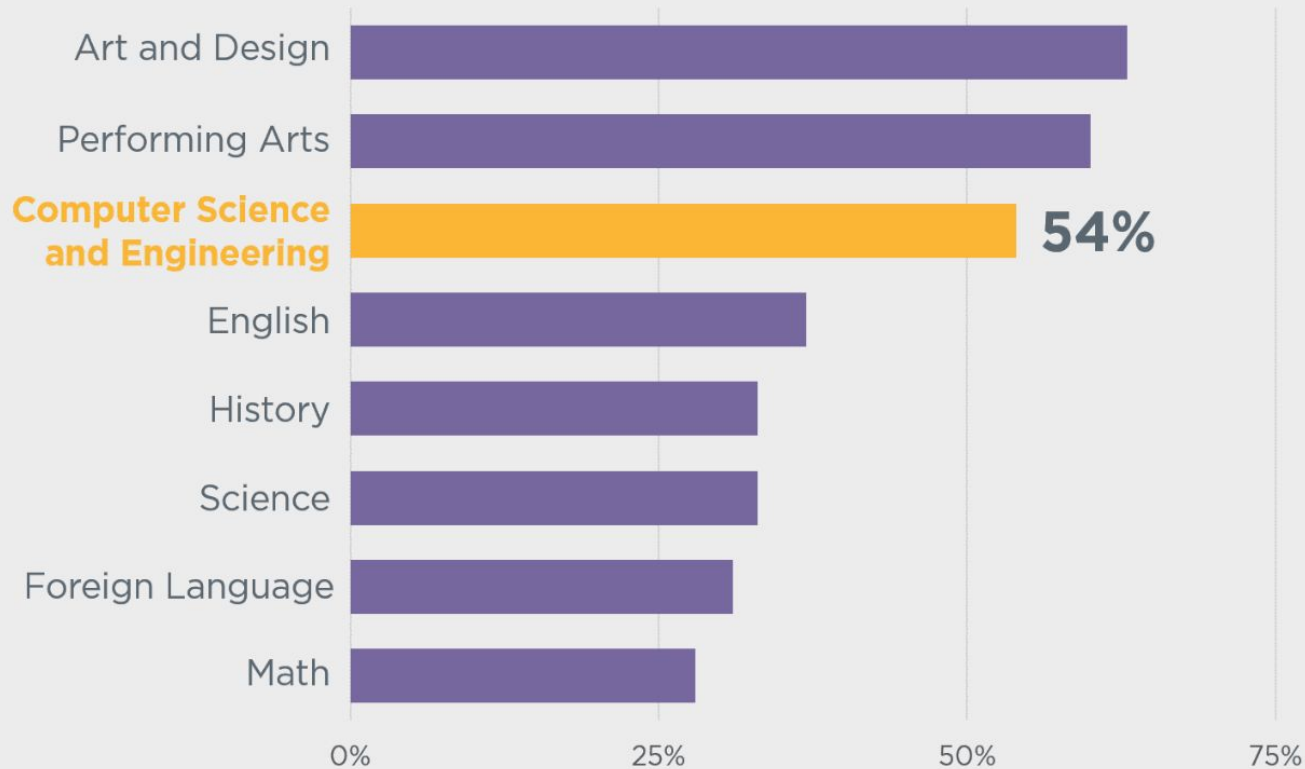
- Implement career and technical ‘core’
- Implement financial literacy ‘core’
- Increase elective technical coursework
- Increase career exposure
- Increase Career and Technical Student Organizations (CTSO)
- Develop experiential learning program
- Strengthen elementary alignment
- Strengthen post-secondary alignment
- Demonstrate value for broader range of pathways



The “STEM” problem is in computer science



What subjects do students like “a lot”?

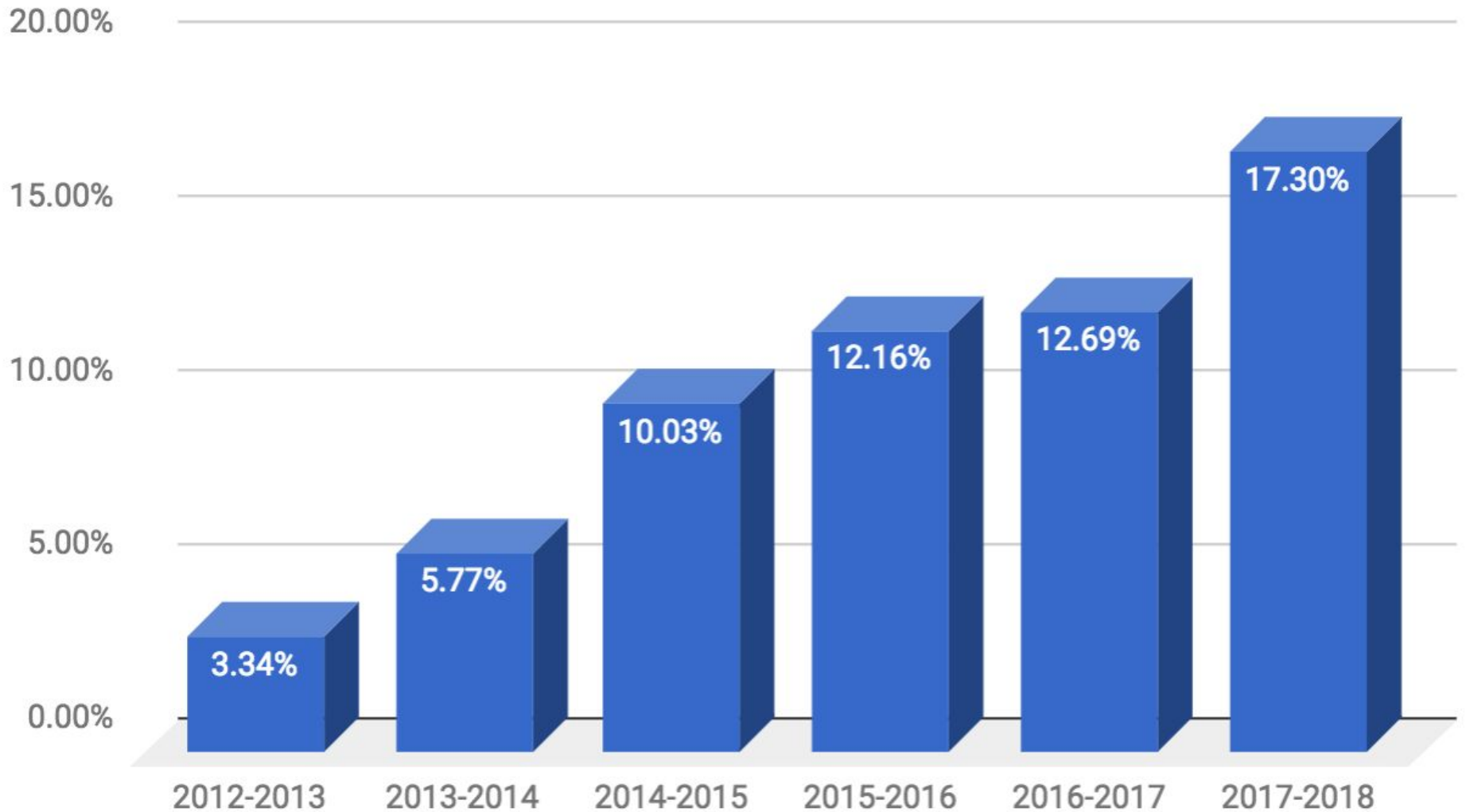


Students enjoy **computer science** and the arts **the most!**

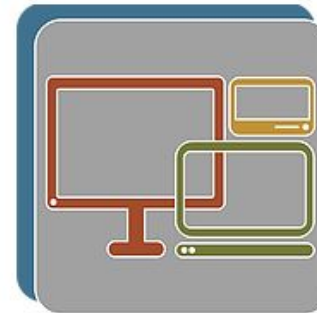
Growing “Tech” Talent: Local Strategies

- District Culture, Leadership
- K12 Academic and Career Planning
- Grade 7 Technical Wheel (Elective)
- Broaden Scope of “Tech Pathways”
- K12 Co-curriculars
- Career Based Learning Opportunities
- Engaging Girls
- Community Supports
- Define & Measure “Technological Literacy”

Percent of SDNB Students taking Computer Science,



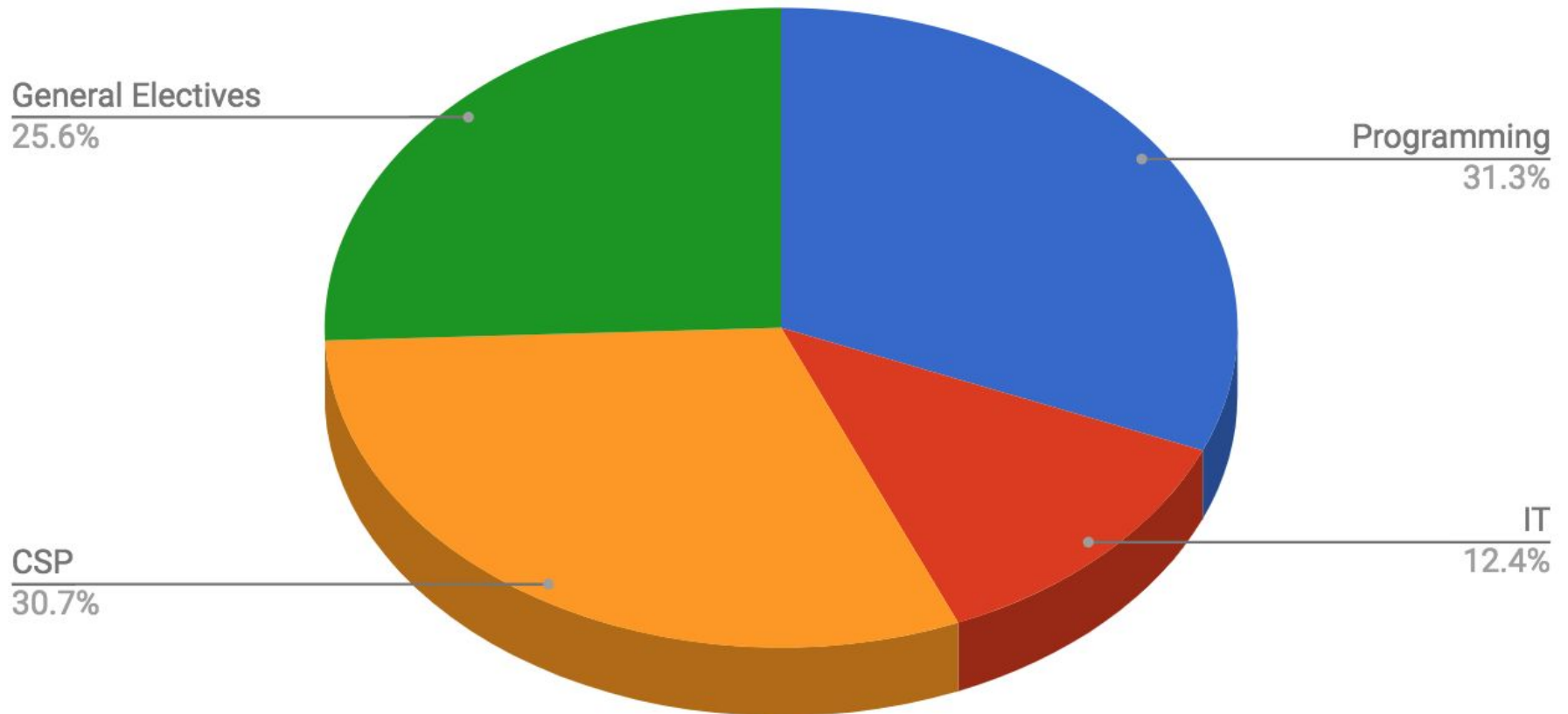
More Options = More Student Engagement



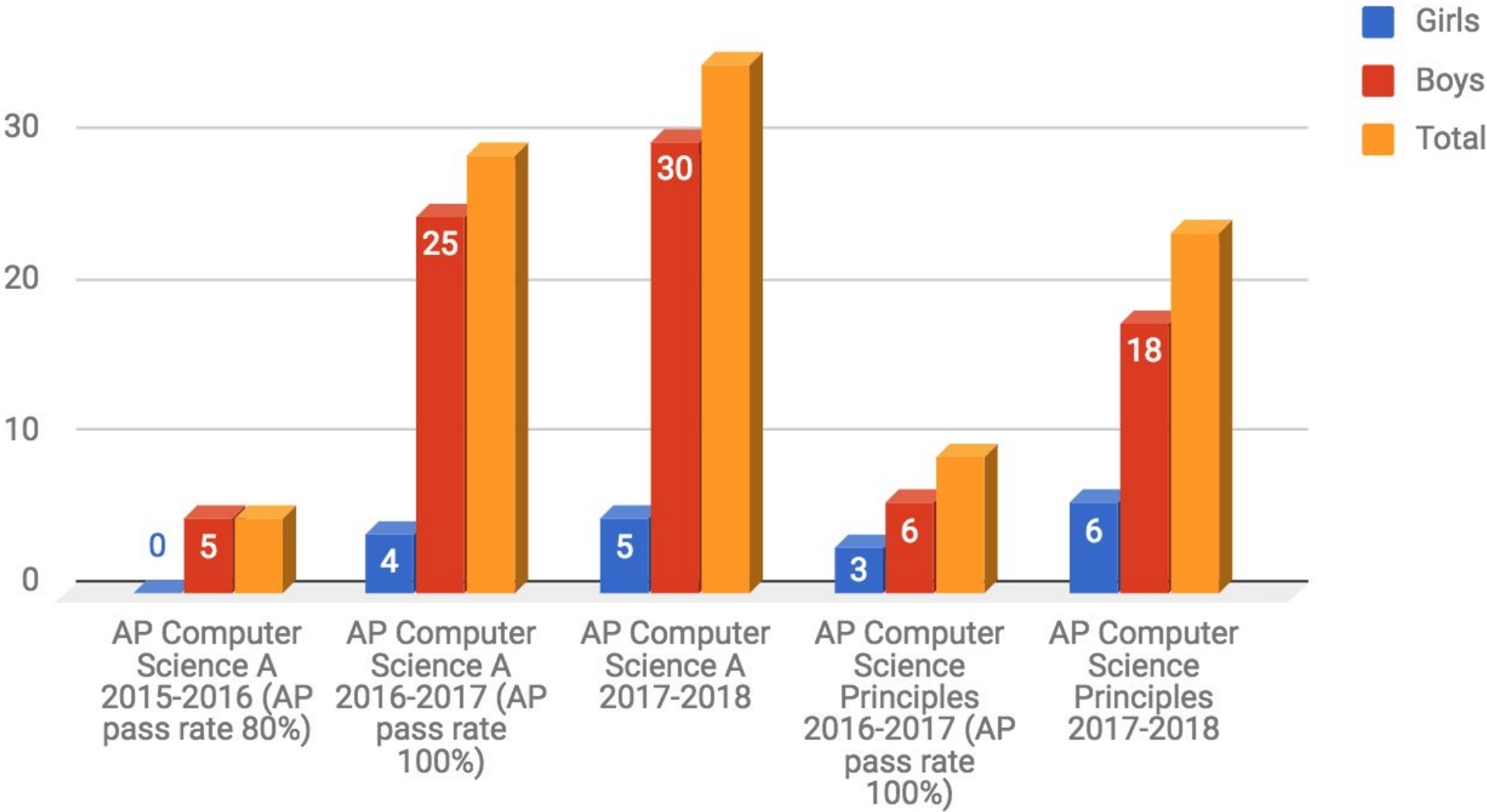
TechKNOW
Student Helpdesk
School District of New Berlin
Expect Excellence

**COMPUTER
SCIENCE A**

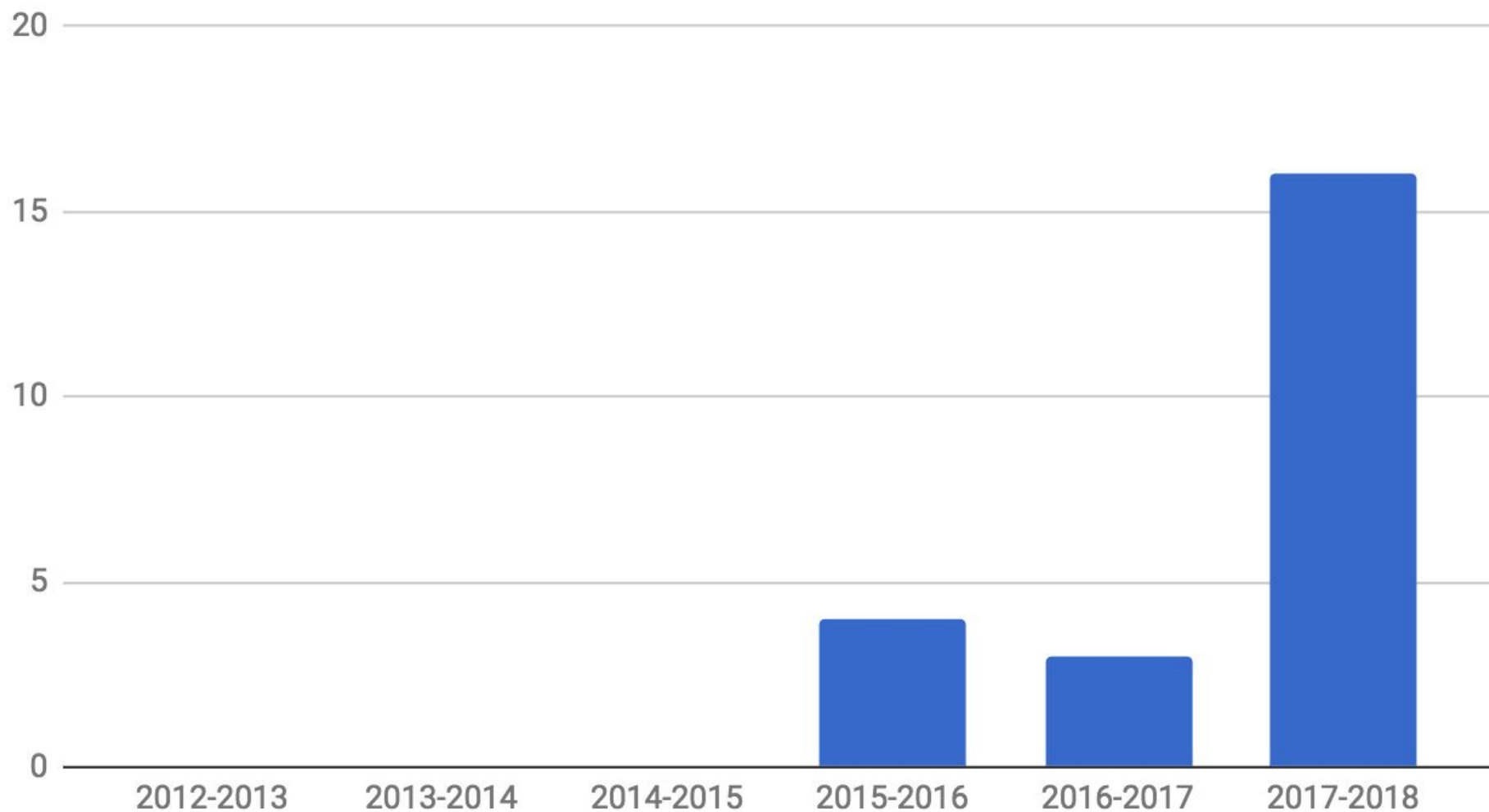
Area of Interest in 2017-18



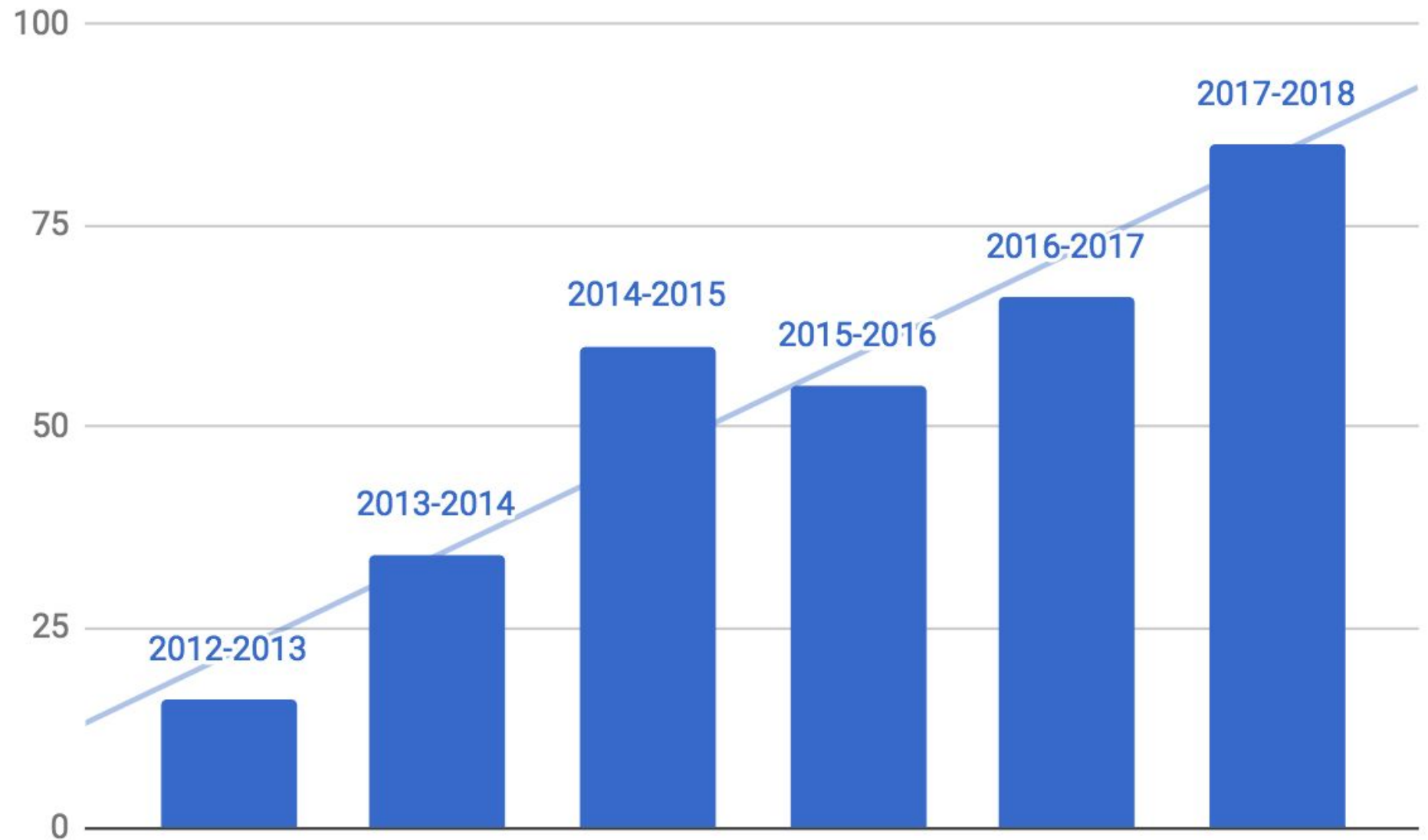
Advanced Placement Courses (AP) Enrollment Trends



IT/Computer Science Tech Honor Recipients



SDNB Girls Enrolled in Computer Science Courses





national center for

women &

INFORMATION
TECHNOLOGY



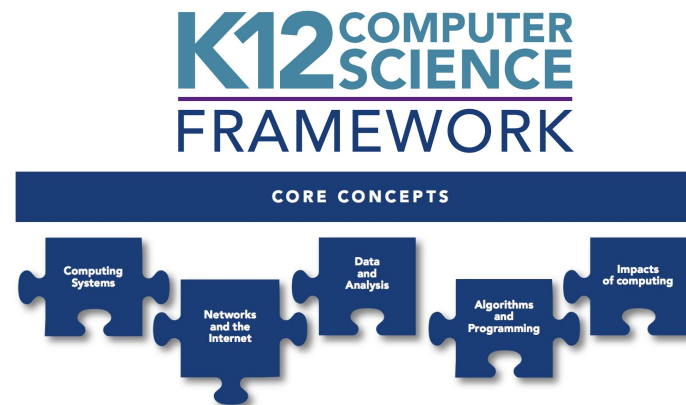
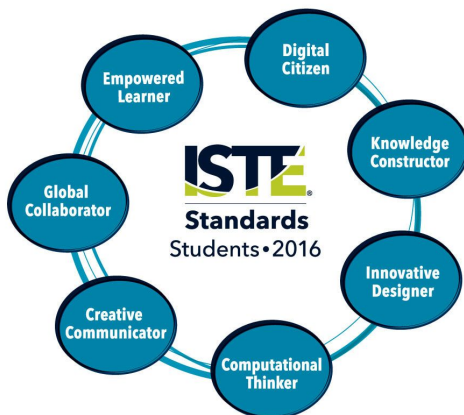
NCWIT
Aspire IT

C+C
counselors
for computing

<https://www.aspirations.org/aspirations-community/wisconsin>

“Perceived” Barriers to CS

- Accountability
- Perception of “Computer Science”
- Talent Pool of CS Educators
- Centralized Resources for CS Educators
- Considering EdTech as “the” Solution



Includes “Technological Literacy” But how do districts define it? Measure it?

One of the key components of our "Vision of a Graduate" is technological literacy.

Technological literacy* refers to one's ability to use, manage, evaluate and understand technology. In order to be a technologically literate citizen, a person should understand what technology is, how it works, how it shapes society and, in turn, how society shapes it.

Additionally, a technologically literate person leverages their inventiveness to design and build things and to solve practical problems that are technological in nature.

Technological literacy involves a vision where every person has a degree of knowledge about the nature, behavior, power and consequences of many aspects of technology from a real-world perspective.

* definition adapted from ITEAA.org

Key Strategies

Instructional Standards

Digital Citizenship

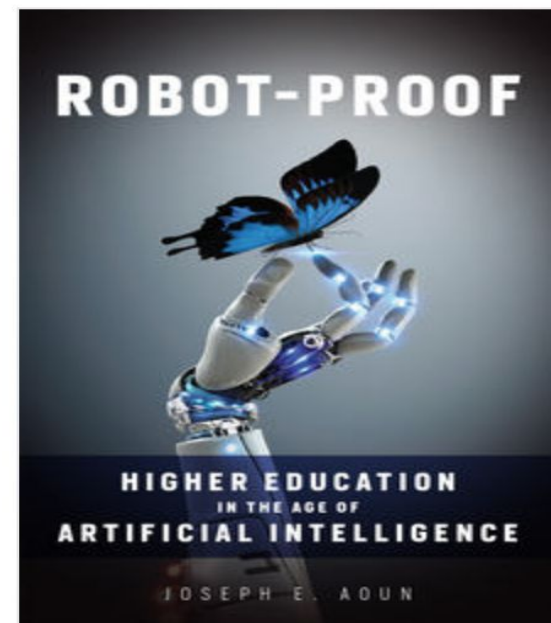
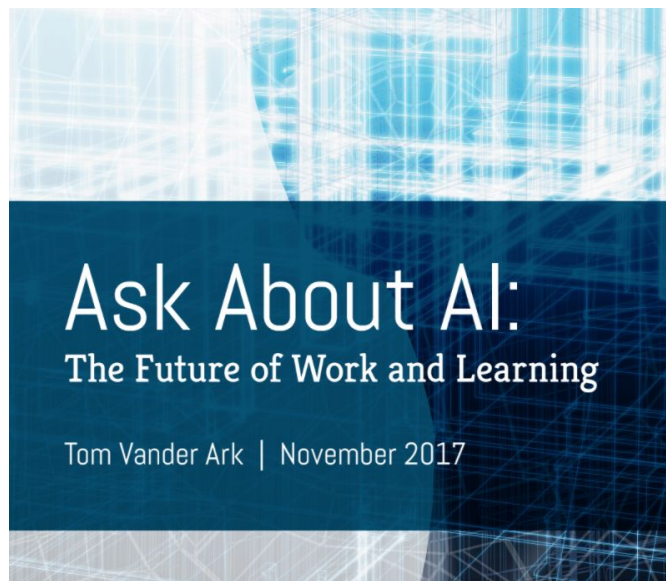
Digital Learning

Online Coursework

Computer Science
Curriculum

IT TechKNOW Program

Advanced Innovation
and Design





Thank you

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