

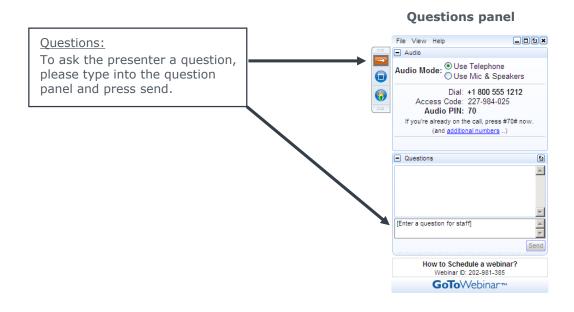
# Meeting the Career Readiness Imperative

Lowering Access Barriers to Career Experiences

Boosting the Quality and Frequency of Career Decision Support

### Managing Your Screen





### Managing Your Audio

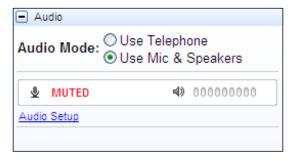


#### **Use Telephone**



If you select the "use telephone" option, please dial in with the phone number and access code provided.

#### **Use Microphone and Speakers**



If you select the "mic & speakers" option, please be sure that your speakers/headphones are connected.

### Meeting the Career Readiness Imperative



Best Practices for Scaling Career Awareness and Exposure

1

Cultivate Early and Broad Career Awareness 2

Lower Access
Barriers to Career
Experiences

3

Offer Personalized and Frequent Career Decision Support 4

Formally Aid Workplace Transitions



- Worlds of Work Middle School Expo
- 2. Pathways Essentials
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- Community-Sourced Project Based Learning
- 6. General Education Externships
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- 8. Career-Based Scheduling
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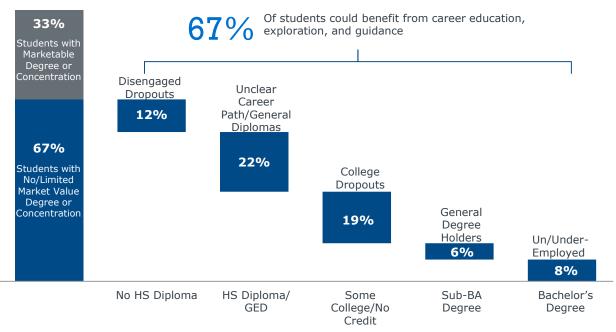
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### Majority of Students Not Ready for the Labor Market

Districts Best Positioned to Set Students Up for Long-Term Career Success

### Large Share of Students Across Education Attainment Levels Face Difficulty Entering the Labor Market

EAB Analysis of U.S. Census Data on 25 to 34 Year Olds' Education and Employment Outcomes



### Picking Careers in a Vacuum



### Students Are Choosing Before Testing Their Interests



### **Undecided Student**



Selects first major presented to them without refined understanding of interests or goals



"We have an unusually high number of accounting majors because it's listed first in the course catalogue."

> VP Student Services Community College (Southeast)



#### **Nursing Student**



Declares nursing based on scattered advice from family, friends and limited career knowledge



"Rigor is one thing, but many of our nursing students switch because they discovered they do not like blood."

> Curriculum Dean. Community College (Mountain West)



### **Solar Panel Tech Apprentice**



Opts into a training program based on salary projections with little awareness of the day to day tasks



I "Just as I began practicing my skills on the job, I realized that I was too afraid of heights to do this for a living."

Technical Program Dropout

## Switching Majors Is High Risk Behavior



### Major Changers Incur Excess Cost and Reduce Likelihood of Completion

### Most College Students Struggle to Pick Correctly the First Time



Delayed Completer

Average number of majors changed during community college

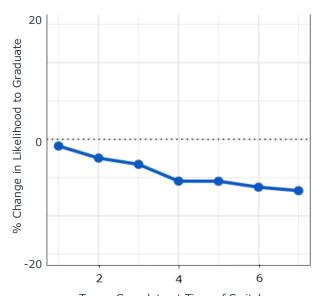
Average number of excess credits accumulated

Average elapsed years needed to obtain associate degree

\$3K-\$19K

Range of costs associated with excess credits

# **Switches Correlated With Lower Graduation Rates** *Percent Change in Likelihood to Graduate by Terms Complete for Major Switchers*



Terms Complete at Time of Switch

Source: Kirkham, E, "Study: Here's How Much College Credits Actually Cost," Student Loan Hero; Cochran, S, "Calculating the Cost Per Credit Hour," Bright Hub; EAB interviews and analysis.

### Hard to Scale Out-of-School Work-Based Learning





### **Limited Number of Nearby Employer Partners**

The number of local employers willing to host work-based learning is usually insufficient to accommodate students interested in work-based learning



### **Limited Student Transportation**

Not all students have access to transportation, and schools may not be able to bear the cost of providing transportation for every student



### **Crowded Academic Schedules**

State academic mandates and testing leaves little time for students to participate in work-based learning

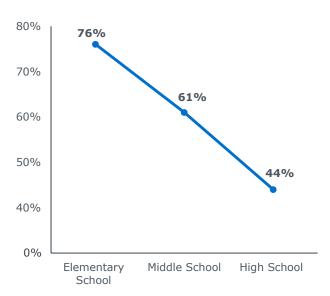
### A Crisis of Relevancy



### Student Engagement Rates Decline When Purpose is Unclear

### Students' Engagement Decreases Throughout Academic Tenure

Percentage of Students Engaged in School



### **Declining Engagement Calls for Real World Classroom Connections**



Of high school dropouts report that "seeing the connection between school and getting a job would have kept them in school"



Improvement in high school graduation rates for students engaged in career-based projects

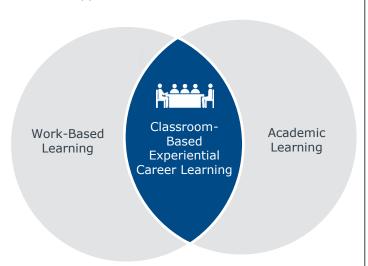


### Integrated Learning Critical, But Challenging

### Schools Struggle to Break the Mold of Traditional Classrooms

### **Integrate Career and Academic Learning**

Critical Strategy to Promote Student Engagement and Low-Risk Opportunities to Test Career Interests and Fit



#### **Challenges Remain Prevalent**

Why Aren't More Classrooms Adopting Experiential Career Learning?



Teachers unfamiliar with pedagogical framework



Projects dependent on employer participation

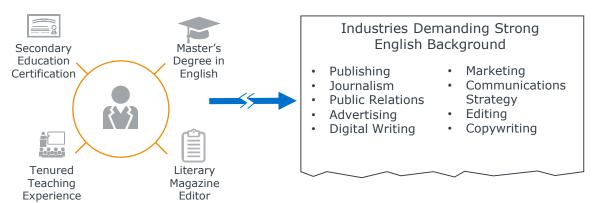


Large amounts of academic requirements often crowd out innovation



Districts have limited access to necessary resources

### **Teachers' Expertise Limits Ability to Provide Real-World Career Education**



"

"Teachers have spent their whole lives in a classroom. They go to school, then they go back to the classroom. That's why our gen ed teachers did not understand why foreign language is important in a marketing firm or how a lawyer uses math. They didn't have an answer to the question 'how will I use this outside of school?' and students weren't seeing the connections."

Donna Gilley Director, Academies of Nashville



### Teacher-Directed Industry Learning

### Regionally Sourced Business Input Prompts Authentic Classroom Projects



### **Industry Input**



Advise in curriculum development, implementation, and assessment options



Supply industry-specific challenges to be integrated into the classroom





### **Teacher Collaboration**



Focus on cross-curricular inquiry-based lesson plans that align with individual content standards



Create product-driven, industry-inspired assessments that reflect a real industry problem

Single Subject Integration & Multidisciplinary Projects Promote Industry Application Sample Projects Inspired by Local Businesses

#### English/Engineering/Technology

Compare engineering and technological capabilities at the time the assigned novel was written to what they are today; explain how the outcome of the novel would be different in 2017 as a result of these advances

#### History/Public Health/Urban Planning

Research the past, present, and future of health policy in Los Angeles to create a museum showcasing the historical evolution of healthcare in the city

#### **Profiled Institution:**

Long Beach Unified School District, Long Beach, CA



### **Short Format Experiential Ed for Teachers**

### Externships Help Teachers Connect Content to Local Professions

	ville Externship Program
Days	Activities
1-3	<ul> <li>Externship Preparation</li> <li>Teachers participate in project based learning training and conduct research on both the company and professional norms of the industry</li> </ul>
2	Experiencing the Daily Tasks of the Job  • Two consecutive days of industry-specific education and development; teachers track their observations throughout the externship
1	Employer and Teacher Roundtable  Collaboration between teachers and employers to design an interdisciplinary unit plan and corresponding student project

#### **Profiled Institution:**

Metropolitan Nashville Public Schools Nashville, TN



# T

### Things to Track in Teachers' On-Site Externship Journals

- □ Academic Standards at Work
- Necessary Professional Skills
- Job-Related Concepts & Jargon
- ☐ Challenging Day-to-Day Problems
- Teacher Debrief & Reflection
- Relevant Student Deliverables
- Project Alignment Ideas

### Industry Input Makes Real-World Projects Possible

#### **Examples of Students' Unit Projects**

- Create a sensor and switch system to automate the watering of plants in the school greenhouse
- 3D print a mechanism for mounting a camera to a Roomba to monitor the school hallways
- Persuade a mock business council by writing and presenting a building proposal for the city
- Reconstruct accident scenes and use data retrieval protocols to compile vehicle data and identify the cause of each accident
- Design an automated assembly line for manufacturing flashlights

#### **Key Components of a Unit Project:**

- · Completed over the course of 2-5 weeks
- · Spans multiple courses
- · Aligned to grade level standards
- Often involves a final presentation to employer partners

99

"The absolute, hands-down best professional development we have been able to deliver has been the teacher externship program. It is the most impactful for teachers and students because it brings relevancy into the classroom."

Donna Gilley Director, Academies of Nashville

140

Externships organized over the past 7 years

145

Employer-vetted interdisciplinary projects

678

Teachers matched to industry of interest

142

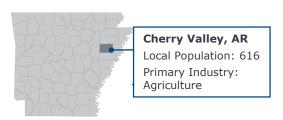
Regional employers equipped for externships

# 15

### Geography Limits Scale of Work-Based Learning

### Cross County High School Struggles to Identify Internship Opportunities

### **Rural School's Isolation Presents Logistical Obstacles**





Transportation to places of work



Access to a network of professionals



Proximity to high demand industries

#### **Lack of Local Employers Sells Students Short**

We are faced with the **challenge of a lack of business**. We're in a town that has 600 people. We have a gas station, a car wash, a bank, and that's it. This makes implementing quality work-based learning difficult."

Matthew Swenson Assistant Principal & Director of College and Career Access <10%

Of 11<sup>th</sup> grade students participated in work-based learning

#### **Profiled Institution:**

Cross County Schools, Cherry Valley, AR



### Virtual Business Engagement

# 16

### Digital Tools Enable Work-Based Learning Through Remote Matching

#### **Establish Virtual Career Matches**

- Identify Career Interests
  Teachers compile lists of indemand industries based on student interest surveys
- Assemble the Network

  All teachers submit a minimum of five professional contacts from varying backgrounds
- Secure Commitment
  Vice Principal emails
  professionals seeking
  participation using a
  standardized template
- 4 Master the Match
  Professionals are paired with students based on career interest using Google form

### Industry Matched Mentors Connect Students to Business Challenges

Mentor Responsibilities









Supplies an engaging and current business problem to tackle with student



Conceives of creative solutions to mentor's business challenge

Spends 6 hours over 6 weeks video conferencing



Spends an additional 1.5 hours each week engaging in handson work

Provides feedback on project quality & professionalism



Presents finished product to both mentor and a panel of administrators



Virtual Internship Guide available in Appendix A, pg.31.

## **Examples of Students' Virtual Projects**



### **Sample of Industry-Specific Projects**



Prototype an oscillating circuit to be used in a research lab at Virginia Tech



Devise an interview for Google's human resources department



Design and weld a pipe frame for a vehicle



Write and publish a fictional short story in a university publication



Form dental impressions to be used for braces



Film and edit a video to train athletic coaches about concussion tests



Create a virtual health care services business plan

### **Project Completed by an Aspiring Engineer**



- Constructed with the help of a Virginia Tech professor who was researching automated scientific discovery
- Sent to Virginia Tech where it was used to test robotic scientific automation

This kind of exploration helps students selfadvocate, communicate with professionals, and broaden their scope of knowledge. And the best part of this initiative is that **students experience the authenticity of being an actual intern.**"

Matthew Swenson, Assistant Principal & Director of College and Career Access

# Work-Based Learning Without Borders



### Cross County Facilitates Virtual Partnerships with Dozens of Organizations



>50

Professional mentors partnered with students

States were represented by professional mentors 98%

Of 11<sup>th</sup> grade students participated in workbased learning

75%

Of students clarified their career interests

### Integrating Academic and Career Development



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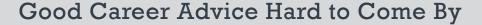
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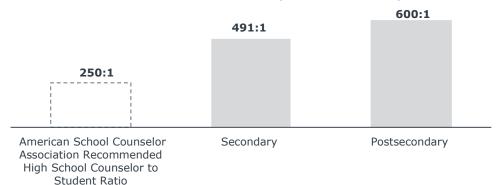
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#### **Overwhelming Counselor Caseloads Across Education Levels**

Average Student to Counselor Ratios Across Secondary and Postsecondary Institutions





High School Students Dissatisfied with Career Support

36%

Of students receive guidance from counselors in determining their future career options 62%

Of students rate their counselors "fair" or "poor" in helping them think about careers



Postsecondary Students Undersupported in Choosing Careers

29%

Of students receive career guidance from career services on campus 40%

Of students with or pursing a bachelor's degree would choose a different major

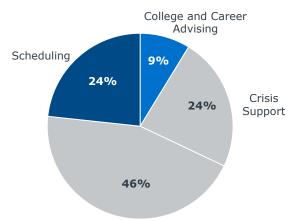
## Little Time for College and Career Counseling



### Counseling Limitations Lead to Career Advice Deficit

### **Counseling Time Scarce and Unfocused**

Percentage Breakdown of Counselor Time



Administrative Duties (Coordinating Testing, Monitoring School Lunches, Substitute Teaching, etc.)



#### **Too Much for One Person's Plate**

Career counseling is usually at the bottom of a high school counselor's priority list. First, most are not trained in career counseling, and second, they are putting out too many other fires. They're focusing on scheduling, boyfriend-girlfriend counseling, college applications, you name it...just not career counseling."

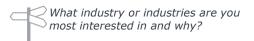
Chris Zirkle Author of "Youth in Transition: Career Education and Training" The Ohio State University



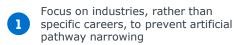
### Limited Scheduling Time Well Spent

### Integrate Career Prompts into Scheduling Conversations

#### **Counselor-Led Career Prompts...**









What have you learned about your strengths and interests this past year?



Embed reflection on skills and interests into scheduling conversations



How confident do you feel about your plans after high school and why?



Validate interests and assess the desire for alternate pathway consideration or additional career information



What classes can help you achieve or narrow down your long-term industry aspirations?



Make high school coursework relevant to students' long-term aspirations

#### **Profiled Institution:**

Township High School District 214, Arlington Heights, IL



Increase in the number of career conversations per student during their high school tenure



### Industry Career Guidance Takes a Village



### Insufficient Counselor Capacity to Provide Industry-Specific Advice



**John Connington**<sup>1</sup> High School Counselor



### **Limited Industry Knowledge**

- · Masters in child psychology and counseling
- · Five years experience as a middle school teacher
- · Bachelors degree in education



### **Limited Capacity To Develop Industry Knowledge**

Responsible for supporting 423 high school students through scheduling, crisis-support, and advising

### **Underutilized Pool of Potential Advisors Closer Than You Think**

Sample of Industries Related to Teacher Subject Expertise



#### English Teacher

- Public Relations
- Journalism



#### Biology Teacher

- Health Care
- Anatomy



### Geometry Teacher

- Construction
- Engineering



### U.S. History Teacher

- Government
- Law



### **Computer Teacher**

- Technology
- · Coding



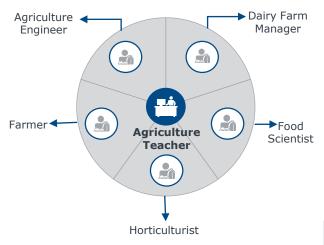
### **Economics Teacher**

- Business
- Advertising
- Marketing

### Industry-Based Cohorts Deepen Career Knowledge

### Advisory Cohorts Match Students' Interest with Teacher Affinity

Example of Agriculture Advisory Cohort



#### **Profiled Institution:**

Greenwood School District, Greenwood, AR



### **Cohort Activities Help Students Evaluate Careers of Interest**

- Employer networking opportunities deepen knowledge of education and skill requirements for various careers
- Field trips to employer sites refine students' on-the-job knowledge
- Networking research during advisory periods helps students source career contacts and resources within the industry
- Student-led industry discussions promote broader and deeper awareness of career possibilities and pathways



- Number of cohorts representing different industries
- 3x Number of meetings per week

Source: EAB interviews and analysis.

### Counselors Bolster Teacher Advising Skills



### Ongoing Support Improves Quality of Advice

### **Support Provided by Counselors**



### **Industry Externships**

Externships improve teachers' ability to advise students on preparing for specific careers



Interactive career-based lessons are easily adaptable to each industry





#### **Up-to-Date Labor Market Data**

Most recent industry data allows advisors to provide accurate industry information and guidance

#### **Advising In-Days**

Counselor-led professional development enhances teachers' advising skills



"

"We used to assign our kids to advisors based on where they fell in the alphabet. But we realized that when it came to careers, many of our teachers come from other fields besides of education. We realized we were ignoring sources of industry knowledge, which was right under our noses. Our kids are now thinking about their careers far before they are walking across the stage."

Cody Chatman, Principal, Greenwood Public Schools

### An Untapped Pool of Community Volunteers

Busy Professionals Eager to Mentor But Face Limitations

give. I felt bad because I had to cancel

or reschedule a few mentor meetings."

### **Large Share of Students Want Employer Advice**



83% Of high school graduates believe employers are "very helpful" sources of career advice



Source: "Volunteering in the United States, 2012," U.S. Bureau of Labor Statistics, Feb. 2012; EAB interviews and analysis.

up-front ideas on how to work with

high school students."



### Range of Choices Yields Higher Participation

### Employers More Likely to Volunteer When Presented With Options

### Offer a Menu of Discrete Volunteer Options

Abbreviated Sample Email Sent to Local Employers

Hi Jane, Champaign Community Schools Unit District 4 is Allow seeking employer volunteers to help high school emplovers to students explore careers, plan, and achieve their choose from post-secondary goals. Would any of these volunteer several options below fit with your schedule? If you are volunteer interested in any or all of these options, let me options know by July 1st. Job Presentation 30 minutes per year Informational 1 hour per year Interview Set shared Career Mentoring 15 hours per year expectations I look forward to hearing from you! by listing the estimated time Marc required by Career Programming Coordinator each activity Champaign Community Schools Unit District 4

Champaign, IL

Add urgency by bolding your request and including a deadline real or artificial

### Provide the Know-How



### Explicit Guidance and Support Enhance Mentor Effectiveness

### Pillars of Support for Employer Mentors...



#### **Suggested Activities**

Provide examples of mentoring activities to ensure employers can lead meaningful interactions with students

#### Examples

 Show students where and how to find industry trends and projections

### ...Yields Greater Student and Employer Satisfaction

125

Students participated in oneon-one career mentoring

80%

Of students claimed their mentors helped refine their post-secondary goals

95%

Of mentors wanted to volunteer the following year

**I** 

Suggested activities & discussion guidelines available in Appendix A, pg.24.



#### **Discussion Guidelines**

List targeted questions to act as mentorship guidelines so that students receive quality career-specific advice

### Examples

- If you could start your career over, what would you do differently?
- How would additional education impact my industry opportunities and lifestyle?
- What high school courses would help someone prepare for the field?



### On-Demand Mentor Support

Encourage employer volunteers to call district staff directly for mentorship support if needed

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### **Upcoming Final Webinar**



### **Final Webconference for Meeting The Career Readiness Imperative**



#### **Webconference Part Three**

"Formally Aiding Workplace Transitions in an Academic Setting"

Wednesday, June 13 Noon EST



 $\begin{tabular}{ll} Washington\ DC\ |\ Richmond\ |\ Birmingham\ |\ Minneapolis \\ \hline \end{tabular}$ 

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