

Transforming the Next Generation Workforce



FISSEA – “Pecha Kucha” session

iQ4 Frank Cicio - Founder/CEO

“From Education to Employability”

McKinsey Report

- **Seventy-five million youth are unemployed**
- **Half are not sure that their postsecondary education has improved their chance of finding a job**
- **Almost 40% of employers say a lack of skills is the main reason for entry-level vacancies**

100 TOP
Job Search
Pinterest
Boards 

education
TO
SUCCESS
VS
THE ROAD
experience

“BUILD YOUR SKILLS NOT YOUR RESUME”
... *Sheryl Sandberg, COO, Google*

Fragmented Market



match.com[®]



Katherina, The Mary Louis Academy- “In the 20th century we were called pioneers, nowadays we’re engineers, I love space, science, math but IT’s NOT ENOUGH ! I want to work with people who do too...and I want to show the world its OK to think differently ! “

Workforce Development Platform

Connecting Industry & Education

“Virtually”



Business Framework



Academic Framework

Virtual Projects

Operation
Functions

Real-World Education
Applied Learning

Academic
Learning

STUDENT'S WORKFORCE READY

Transforming the Workforce

Virtual Applied Learning Platform



Profiles For Students

Personal Qualities
Workplace Skills
Competencies
Certifications
Credentialed

Match For Employers

Skills
Profile
Portfolio
Projects
Content

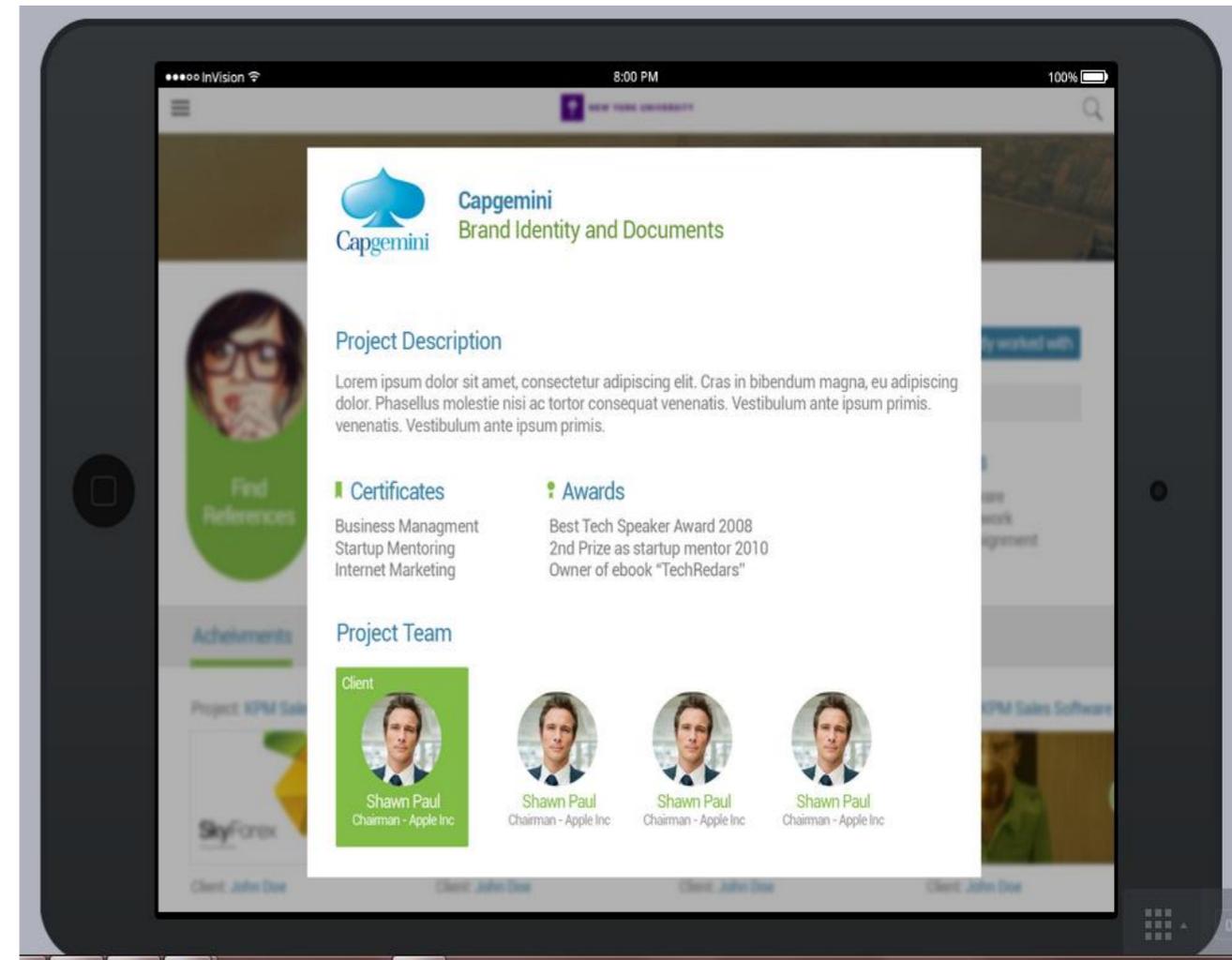
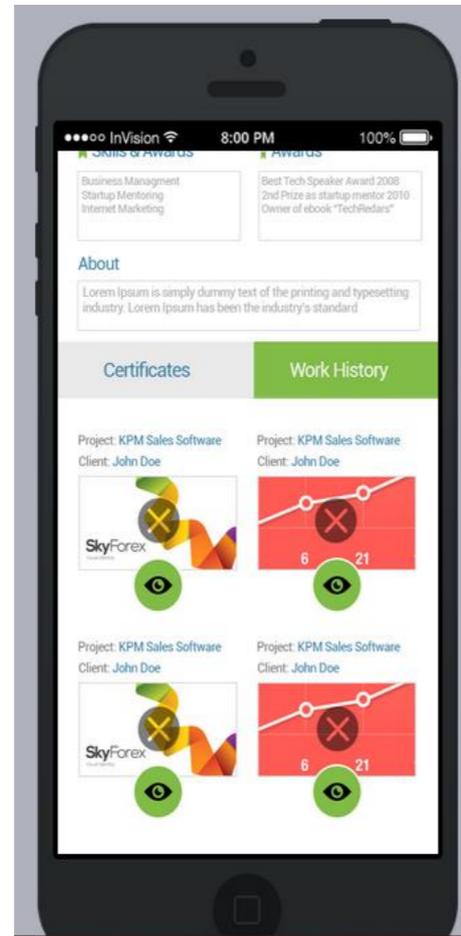
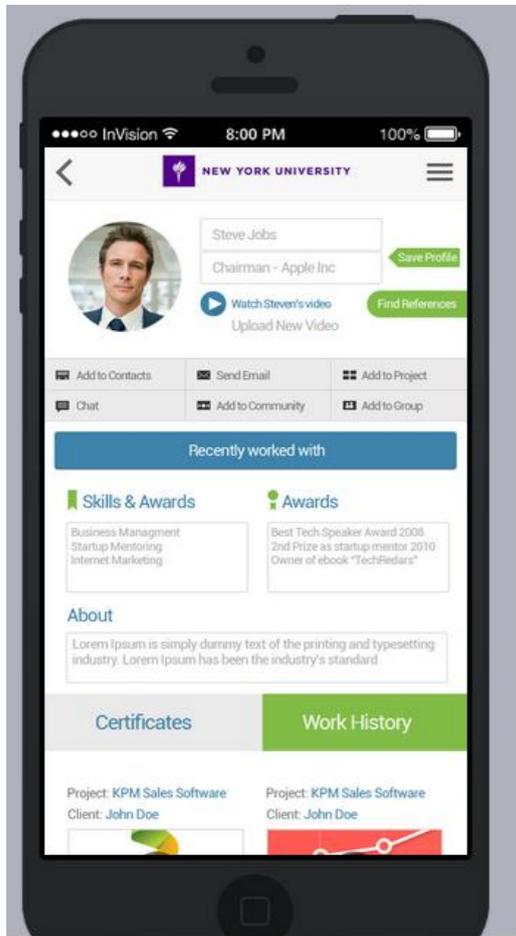
Projects For Business

Accelerate Education
Retention
Assessments
Virtual Engagement
Research outsourcing
Internships/Jobs

Connect Anywhere / Anytime

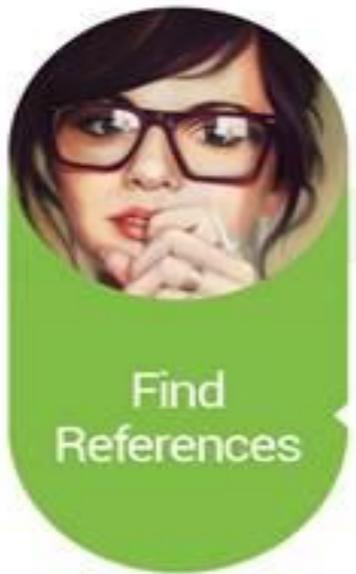
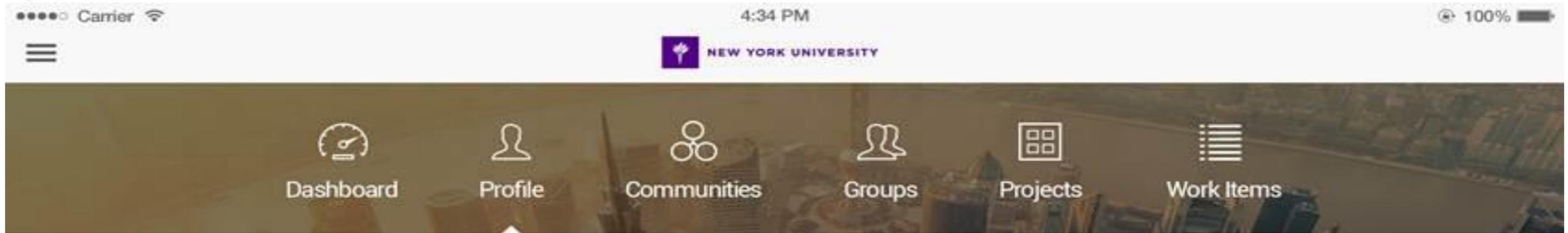
Enterprise Passports & Matching

Epic Challenges Engagements



Skills Match, Developed, Assessed, Validated

Student "Enterprise Passport"



Steven Jobs
Chairman - Apple

[Watch Steven's video](#)

[Recently worked with](#)

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Ask Shawn Paul
Chairman - Apple Inc



Ask Shawn Paul
Chairman - Apple Inc



Ask Shawn Paul
Chairman - Apple Inc

[Work / Education](#) [About Steven Jobs](#)

School: New York University



Client: John Doe

Project: KPM Sales Software



Client: John Doe

Project: KPM Sales Software



Client: John Doe

Project: KPM Sales Software



Client: John Doe

3D Student *Competency* Profiling

“What Students Know and Can Do”

Skills Continuum

Transcripts, Degrees, Enrollment, Certifications

Progression Mapping

Time Windows: Challenges, Innovation, Accomplishments

Pathways Roadmap

Stackable Credentials: Career Opportunities

“Trusted Data – Validated Credentials”



Founding Partner



Lead Pioneer: Dr Charles Camarda, Astronaut.
Senior Advisor for Innovation, Office of the Chief Engineer

SOLVING REAL-WORLD EPIC CHALLENGES

Inspire Innovate

STEM

Problem Solving

Align Industry & Education



Innovation

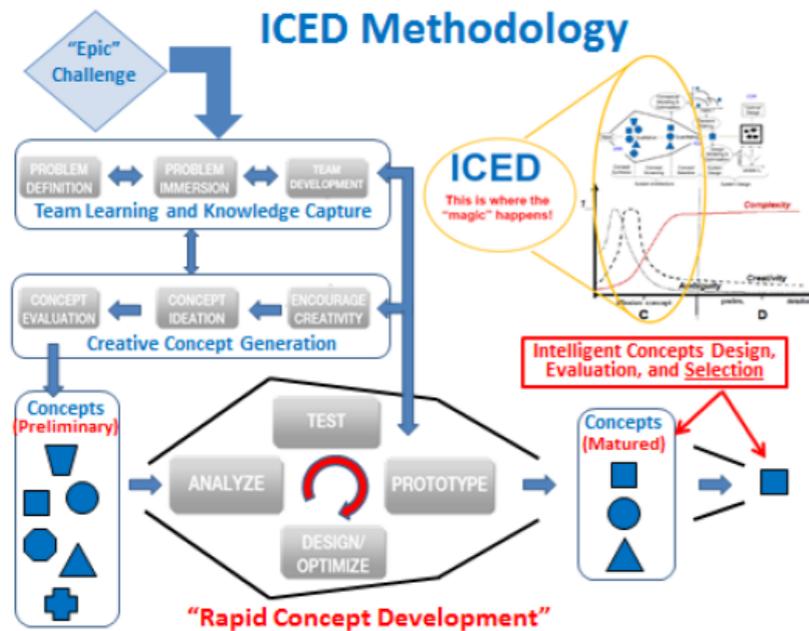
Curriculum

Level the Playing Field

**“It’s all about [solving] the problem”
it creates the passion..**

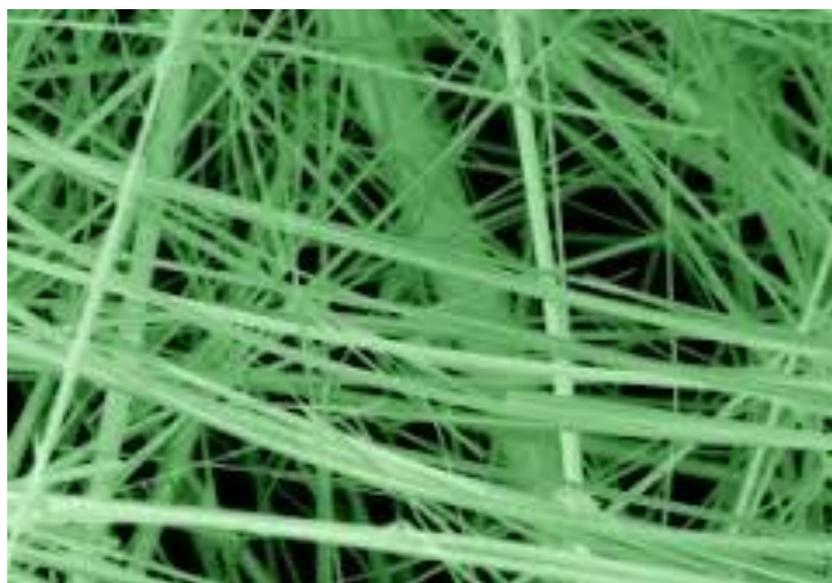


WOW students can solve ... Real-world problems



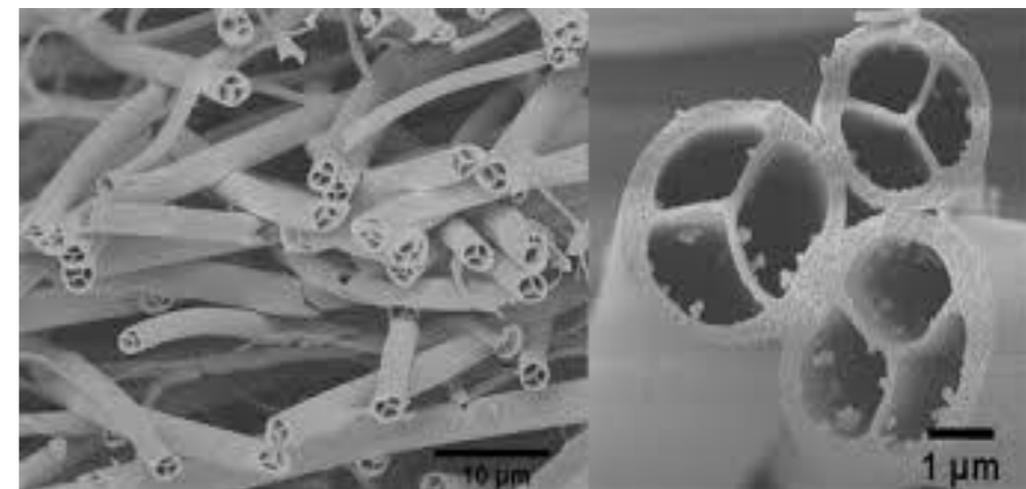
The hair on a polar bear isn't white, it's transparent

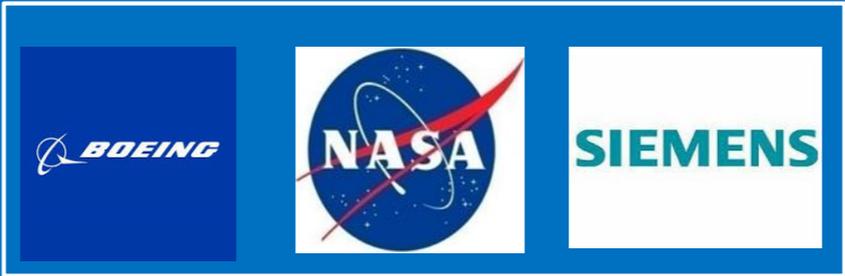
Hexangular Air Pockets Trap Body Heat



...great minds

Nanomaterial produced MIT





Executive Advisory Board

"Epic" Challenge

Asteroid Initiative 2014

Subject Matter Experts



University Cohort Group

High School Mentors

High School Cohort Group

Middle School Mentors

HS Teams

MS Teams

Continuum of Mentorship

Flow of Creative Ideas

University Hubs

High School Hubs

Middle School hubs

Cybersecurity Workforce Development Alliance

Aligning Education With Industry's Context and Needs



- NYU
- Federal Reserve
- Morgan Stanley
- Goldman Sachs
- Bank NY Mellon
- Fidelity Investments
- Express Scripts
- RANE Network
- Perkins Coie
- Capgemini
- NASA
- National Student Clearinghouse



Digital Skills “Passport” And Workforce Development Platform



Purpose

Improve the cyber security skills and scale the college student workforce, so they are more attractive to hire and can provide almost immediate value to the public & private sector by improving a company's Cyber Security capabilities.

Reduce the amount of initial training required by employers for college hires.

Create the "candidate profile" for a College Hire in Cyber Security

Create and run "the Epic Challenge"

Increase understanding of and interest in a career in Cyber security

Align & Enhance curricula to develop the skills needed for a career in Cyber Security

Focus

NIST/NICE Workforce Framework

“Know [PROFILE} your talent, identify and fill the skills gaps and develop unrivaled Cyber workforce”

NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION (NICE)

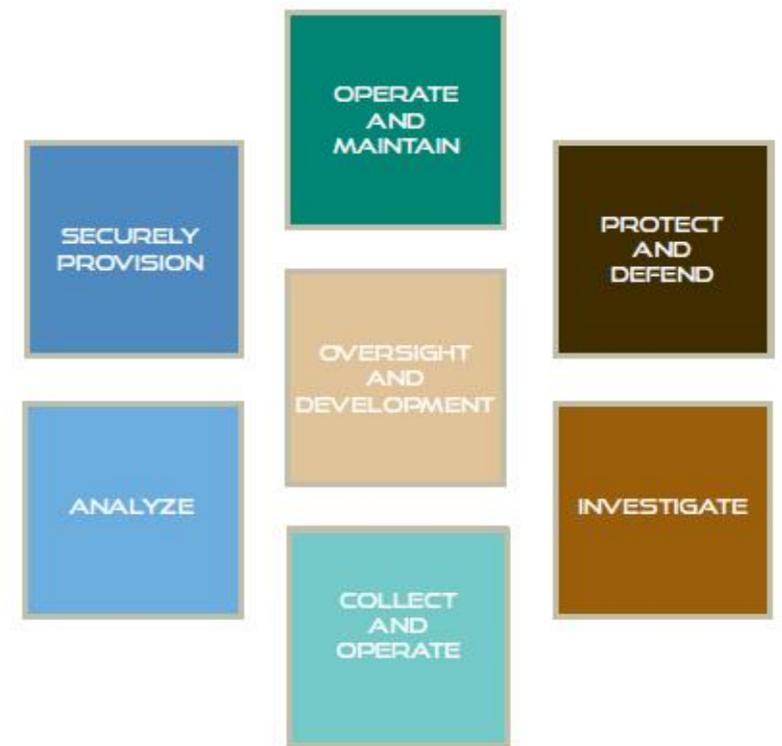


THE NATIONAL CYBERSECURITY WORKFORCE FRAMEWORK

INTRODUCTION
The ability of academia and public and private employers to prepare, educate, recruit, train, develop, and retain a diverse, qualified cybersecurity workforce is vital to our nation's security and prosperity. [\[full text version\]](#)

DEFINING CYBERSECURITY
Defining the cybersecurity population using common, standardized labels and definitions is an essential step in ensuring that our country is able to educate, recruit, train, develop, and retain a highly-qualified workforce. The National Initiative for Cybersecurity Education (NICE), in collaboration with federal government agencies, public and private experts and organizations, and industry partners, has published version 1.0 of the *National Cybersecurity Workforce Framework* ("the Framework") to provide a common understanding of and lexicon for cybersecurity work. [\[full text version\]](#)

THE CALL TO ACTION
Only in the universal adoption of the *National Cybersecurity Workforce Framework* can we ensure our nation's enduring capability to prevent and defend against an ever-increasing threat. Therefore, it is imperative that organizations in the public, private, and academic sectors begin using the Framework's lexicon (labels and definitions) as soon as possible. [\[full text version\]](#)



Collect and Analyze Data	Capture cybersecurity workforce and training data to understand capabilities and needs.
Recruit and Retain	Incentivize the hiring and retention of highly skilled and adaptive professionals needed for a secure digital nation.
Educate, Train, and Develop	Expand the pipeline for and deliberately develop an unrivaled cybersecurity workforce.
Engage	Educate and energize all cybersecurity workforces and the American public to strengthen the nation's front lines of cybersecurity.

Home
Using This Document
Sample Job Titles
Securely Provision
Operate and Maintain
Protect and Defend
Investigate
Collect and Operate
Analyze
Oversight and Development

Any company doing business with USA will be examined as to their effectiveness with NIST-CA and NICE for Cyber Risk and Assurance



FBI Strategy Map

FBI Mission

A1 - "Protect US from terrorist and foreign intelligence activity"

A2 - "Combat criminal activity that threatens the safety and security of society"

A3 - "Preserve civil liberties"

A4 - "Provide leadership, intelligence, and law enforcement assistance to our partners"

FBI Capability

Management Excellence

P1 - Streamline administrative and operational processes

P2 - Assign responsibility and own accountability

P3 - Maximize organizational collaboration

Operational Excellence: Deter, Detect, and Disrupt National Security and Criminal Threats

P4 - Collection/ Investigation

P7 - Action and/or requirements

P5 - Intelligence dissemination and integration

P6 - Analysis

Maximize Partnerships

P8 - Enhance relationships with law enforcement and intelligence partners

P9 - Enhance international operations

P10 - Enhance relationships with the private sector and the public

P11 - Incorporate forecasting and planning into FBI processes

P12 - Improve internal communications

Talent and Technology

T1 - Improve recruiting, selection, hiring and retention

T2 - Train and develop skills and abilities of our workforce

T3 - Link skills and competencies to needs

T4 - Identify, develop and retain leaders throughout our organization

T5 - Enhance work environment to facilitate mission

Maximize Workforce Success

T6 - Align technology and science to our strategic objectives

Leverage Technology and Science

T7 - Deploy technology and science to make our workforce more effective and efficient

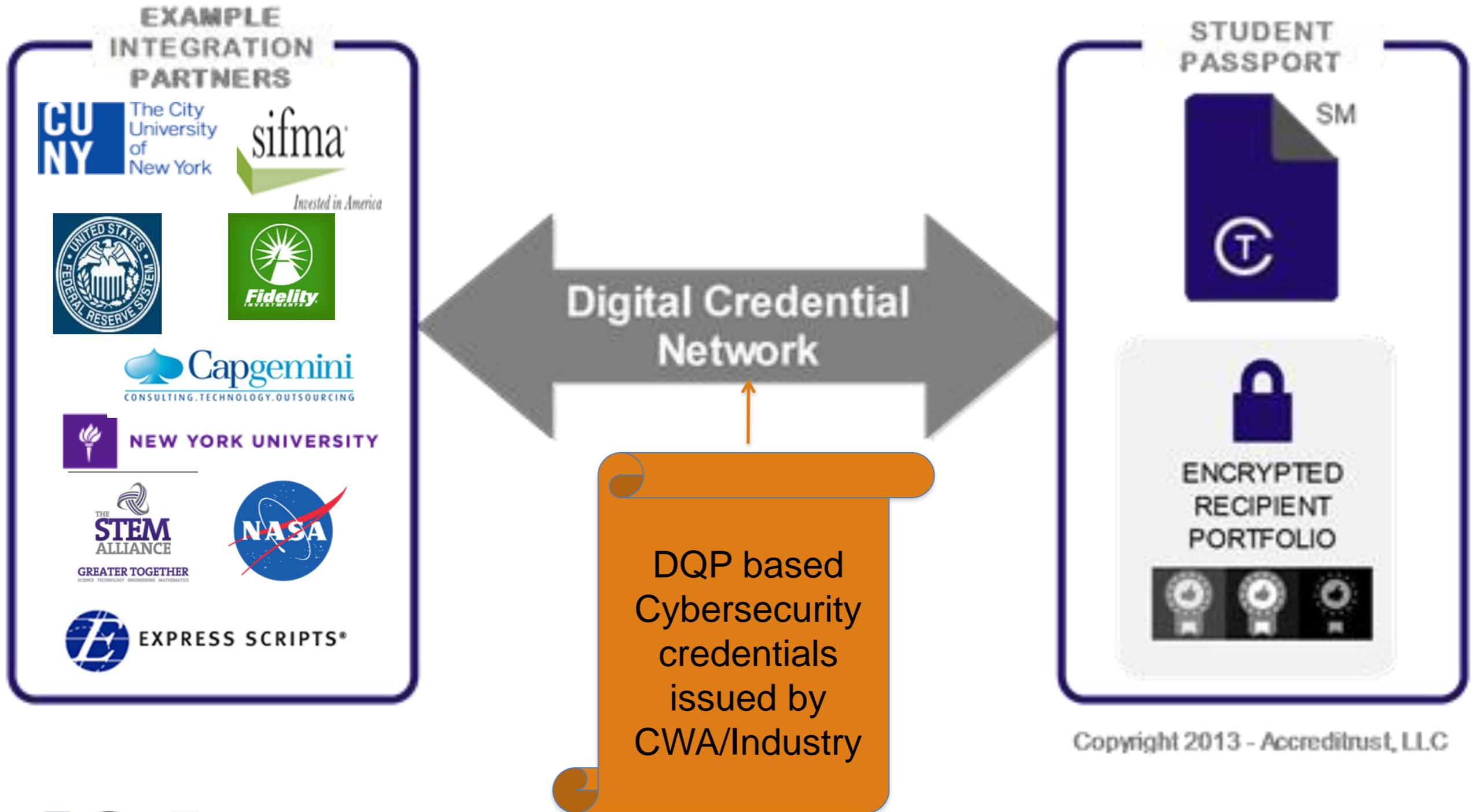
Resource

R1 - Utilize and align existing resources and assets in an efficient manner

Optimize Resources

R2 - Secure and align appropriate resources

DQP Student “Enterprise” Passport



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The New York Times

[SundayReview](#)|Op-Ed Columnist

How to Get a Job at Google *“Project Based Interviews”*

FEB. 22, 2014

Laszlo Bock, the senior vice president of people operations for Google — i.e., the guy in charge of hiring for one of the world’s most successful companies — noted that Google had determined that “G.P.A.’s are worthless as a criteria for hiring, and test scores are worthless. ... We found that they don’t predict anything.”

Bock is saying something important to them, too: Beware. **Your degree is not a proxy for your ability to do any job. The world only cares about — and pays off on — what you can do with what you know (and it doesn’t care how you learned it).** And in an age when innovation is increasingly a group endeavor, it also cares about a lot of soft skills — **leadership, humility, collaboration, adaptability and loving to learn and re-learn.** This will be true no matter where you go to work



Lupita Nyong'o

2014 Oscar Winner

***“ No matter where you come from,
your dreams are valid “***