The Allegany-Limestone Middle School is a self-contained classroom, with a population comprised of students with autism, learning disabilities, and Down Syndrome. The classroom was turned into NYC and the students gained so many valuable experiences along the way. This cross-curricular project brought together the families, school and community with such loving support.

All students at Allegany-Limestone are prepared for life beyond high school through participation in Teen Leadership in Career Studies and Public Speaking. The capstone event is our Junior Interview, in which a panel of community members conduct formal interviews and review resumes. Authentic experiences result in prepared graduates.

I’m A Bulliever has created an accommodating, inclusive and safe environment where student strengths are emphasized and celebrated. There are high expectations for student academic and behavioral success. The program has made all employees and students of Brocton Central School Bullievers.
School District: Chappaqua Central School District
Superintendent: Lyn McKay, Ed.D.
Contact: Eric Byrne, Assistant Superintendent for Curriculum & Instruction, 914-238-7200
Project Name: iLab @ Horace Greeley High School
Modeled after the rapidly evolving 21st century workplace environments, the iLab’s open floor plan includes a seminar room, small learning pods, an eating/conversation area with café-like tables, soft furniture organized in inviting ways and advanced technology—all designed to encourage organic collaboration and innovation and to spur learning and creativity.

School District: Chenango Valley Central School District
Superintendent: David Gill
Contact: Sarah Latimer, Director of Technology, 607-762-6820
Project Name: Elementary STEM: Robots, Programs and Worms!
The Chenango Valley elementary students engaged in STEM education through collaborative hands on learning. Our focus was to develop an understanding of the engineering design process, to learn the basic elements of computer programming and to explore robotics through research and creative build challenges using automated parts.

School District: Commack Union Free School District
Superintendent: Donald James, Ed.D.
Contact: Michael Inforna, Assistant Principal, 631-912-2027
Project Name: Enrichment, Access and Opportunity for All
Commack’s Enrichment, Access and Opportunity for All program aims to prepare every student for whatever he/she wants to achieve at the next level of learning. Understanding that students need time to develop their passions for learning within the academic disciplines, our program is aligned system-wide to foster student development.
School District: Erie 2 Chautauqua-Cattaraugus BOCES (E2CCB)
Superintendent: David O’Rourke, Ed.D.
Contact: Christopher Rusco, Interim Principal at Carrier Educational Center, 716-549-4454
Project Name: Natural Resources: Aquaponics

Natural Resources: Aquaponics teaches students the evolution of agriculture from traditional to scientifically-based practices. Students touch the pulse of innovation as they raise fish and plants together in a cooperative artificial environment, where the fish nourish the plants and the plants purify the water returned to the fish.

School District: Erie 2 Chautauqua-Cattaraugus BOCES
Superintendent: David O’Rourke, Ed.D.
Contact: Jaime Venning, Director of Career and Technical Education, 716-549-4454
Project Name: Erie 2 Chautauqua-Cattaraugus BOCES Western New York Pathways in Technology STEM College and Career Academy

The Western New York Pathways in Technology Early College High School is an innovative school that infuses the critical elements of high school, college and industry together in a customized educational program. Students will complete high school, earn a college degree and be ready to begin a career by graduation.

School District: Gates Chili Central School District
Superintendent: Kimberle Ward
Contact: Annette Schiano, Coordinator of Professional Development and Community Engagement, 585-247-5050
Project Name: Blast Off to Literacy

The Blast Off to Literacy Program partners, Neil Armstrong School and Gates Public Library, provide after school transportation to the town’s library for four weeks and includes literacy-rich activities and projects for students K-5. Families join their students at the end of each session to learn what the library offers.
Granville Junior High School's Technology unit “Engineering with the 3D printer” enables students to connect their hands-on learning with real life problem solving. They develop critical thinking skills as they design and create solutions to a STEM problem and then build and test their design using the 3D printer.

The Titan Memorial Hospital exposed students to a system of the body and a pathology of their choosing that would impact the homeostasis of that system. Students contributed ideas in the early stages when teachers traveled to each class and explained the project idea with a prototype using the Design Thinking Method.

The West Hollow MakerSpace is an innovative concept that supports the tenets of 21st century learning by proving an open environment for students to create, tinker and develop an inquisitive spirit. As students develop stronger problem solving skills, they exhibit greater perseverance while collaborating with peers forming positive social networks.
School District: Hamilton Fulton Montgomery BOCES  
Superintendent: Michael Dardaris  
Contact: Betsy Demars, Communications Specialist, 315-270-2172  
Project Name: Hamilton Fulton Montgomery BOCES Pathways in Technology Early College High School (HFM PTECH)

The HFM Pathways in Technology Early College High School, or PTECH, is a new model for high school education that includes college-level, credit-bearing coursework in the curriculum and allows students to choose their own “pathways” to high-skill jobs.

School District: Holland Central School District  
Superintendent: Cathy Fabiatos  
Contact: Michelle Krieger, Technology Integration Specialist, 716-537-8200  
Project Name: Innovation Games - Creativity in Action

The Innovation Games is a Holland Central School STEAM event that includes local businesses and other area schools. Students showcase what they are learning and connect with relevant businesses and mentors to make career connections. The event includes presentations, demonstrations, contest and activities for the whole family to enjoy.

Superintendent: David Bills (Honeoye), Michael Midey (Bloomfield)  
Contact: Karen Soanes, Shared Director of Instructional Technology, 585-229-5171  
Project Name: Bulldog Tech Desk and Bomber Tech Desk

The technology departments in both districts are small. Each district is implementing a 1:1 Chromebook program. To be successful, students learned to repair existing Chromebooks, developed tutorials for staff and students and designed troubleshooting posters to hang in each of the classrooms.
School District: Kenmore-Tonawanda Union Free School District
Superintendent: Dawn Mirand
Contact: Patrick Fanelli, Director of Public Relations, 716-874-8416
Project Name: How Does Your Garden Grow?

“How Does Your Garden Grow” actively engages students in the issues of sustainability and nutrition. An in-school aquaponics system highlights the important relationship among food source identification, nutrient harvesting and the recycling of the natural world. Student learning culminates with group discussion and journaling centered around stewardship of the earth.

School District: Lancaster Central School District
Superintendent: Michael Vallely
Contact: Patricia Burgio, Director of Public Relations, 716-686-3201
Project Name: Genius Hour

Genius Hour engages students from K-12 in research and investigation of topics that are of particular interest to them. Students utilize technology as well as traditional sources for their explorations, employing sound research methodologies including vetting of sources and citation with presentations of findings expressed in a variety of modalities.

School District: Levittown Public Schools
Superintendent: Tonie McDonald
Contact: Elizabeth Sobel, Account Executive, 516-434-7111
Project Name: Project Lead the Way (PLTW)

Middle School students participate in the PLTW program, a comprehensive approach to STEM education where students take courses in Design and Modeling and Automation and Robotics. Students learn through project-based activities that inspire creative approaches to problems and challenges students to critically think as they use industry standard software and materials.
School District: Mineola Union Free School District
Superintendent: Michael Nagler
Contact: Matt Gaven, Director of Technology, 516-237-2001
Project Name: Coding for All

The Mineola School District has partnered with the innovative company KidOYO to provide coding experiences for students. Students learn computer coding through classes or on their own guided by the computer scientists at KidOYO. The partnership has also produced a system of awarding micro-credentials based on the district mission statement.

School District: North Rockland Central School District
Superintendent: Ileana Eckert
Contact: Michael Gill, Principal, 845-942-3306
Project Name: Academy of Engineering

The North Rockland High School Academy of Engineering is a cutting-edge program offered in a diverse learning environment. In partnership with Rockland Community College, students in the Academy of Engineering earn six (6) college credits in the following courses: Intro to Engineering and Principles of Engineering.

School District: Onondaga-Cortland-Madison BOCES
Superintendent: Jody Manning
Contact: Jackie Wiegand, Marketing Coordinator, 315-433-2602
Project Name: Embedded Career & Technology Education

Embedded Career & Technical Education Programs transport classrooms into local businesses, allowing students to work side-by-side with professional experts in a specialized field. Students apply STEM skills daily at physical therapy practices, a public broadcast station and a large local auto dealer. They also earn up to 22 college credits.
**School District:** Poland Central School District  
**Superintendent:** Laura Dutton  
**Contact:** Byron Ackerman, Communications Specialist, 315-826-0203  
**Project Name:** 1:1 Chromebook Earth Science Class

The 1:1 Chromebook Earth Science class is designed to help students use technology to aid in the everyday learning process. Each student has technology at their fingertips throughout the class period. This includes exploring animations, data sets, current events and real-time feedback on assignments.

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**School District:** Questar III & Capital Region BOCES  
**Superintendent:** Gladys Cruz, Ed.D.  
**Contact:** Daniel Sherman, Director of Communications, 518-477-4996  
**Project Name:** Tech Valley Region Science Camp

Students in the Tech Valley Region Science Camp spend five days at different Tech Valley businesses engaged in fun and exciting hands-on activities alongside the STEM professionals shaping their fields. The weeklong program also teaches students the team building and problem-solving skills needed in high school and beyond.

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**School District:** Rochester City School District  
**Superintendent:** Linda Cimusz  
**Contact:** Debra Flanagan, Executive Assistant, 585-262-8258  
**Project Name:** Teaching Civil Rights through Next Generation Technology

“Teaching Civil Rights through Next Generation Technology” joins students across the country in webinars and an online course to examine civil rights in historic and contemporary contexts. The digital platform overcomes geographic, socioeconomic and racial barriers, enriching students’ understanding through interaction with civil rights leaders and a diversity of perspectives.
The Saratoga Foundation for Innovative Learning is a non-profit organization comprised of community members that share a common goal of fostering forward-thinking and creative opportunities in the Saratoga Springs City School District. SFIL raises funds and distributes grants for programs and equipment that extend the central mission of the district.

The Library Makerspace is a place where students can pursue STEAM concepts in a non-judgmental safe environment. Students pick topics of interest to pursue, experiment, problem-solve and collaborate with peers. The 21st century workforce requires people who ask good questions, collaborate and who are comfortable thinking outside of the box. This program teaches those skills.

The Unified Basketball Program at the SCHSD provides opportunities for students with disabilities, who normally would not have access, to participate in league sports. Teams are formed with students with disabilities and students without disabilities. Participation in the Unified Basketball Program has resulted in improved confidence and self-esteem for students.
At Shenendehowa Central School District, sixth grade math has come alive. Through an increased use of technology, including Google Apps for Education and PlayPosIt, students are mastering Common Core Math. The program has allowed teachers to teach math better and to teach better math. The sky’s the limit for learning!

The Makerspaces give students a place to find answers to their own questions using STEAM (science, technology, engineering, art and math). Through trial and error, the makerspaces give South Glens Falls students the power to explore and the freedom to discover without a “right” way to solve a problem.

SOHO TV is a student generated television show that broadcasts to the school and community weekly. Students are responsible for imagining, writing, filming and editing their segments using tools of 21st century learning. Technology and creativity join as students present news in a manner that is both informative and appealing.
School District: Taconic Hills Central School District  
Superintendent: Neil Howard  
Contact: Neil Howard, Superintendent, 518-325-2891  
Project Name: Community Read

Taconic Hills has collaborated with local libraries and community members to promote literacy by sponsoring a Community Read. This initiative began in grades 8-12 and this year expanded to 4-12. Books are chosen with a similar theme. Students read and participated in activities at school and in the community.

School District: Unadilla Valley Central School District  
Superintendent: Robert Mackey  
Contact: Jake Palmateer, Communications Specialist, 607-847-7500  
Project Name: Future Path Program

Mentors monitor student progress, assist with transition from grade to grade and from school to work or higher education. Mentors have a curriculum to work from each school year. Future Path is a combination of research based programming, college study/21st century skills and mentors meeting the individual needs of students.

School District: Valley Stream 30 (VS30)  
Superintendent: Nicholas Stirling  
Contact: Nicholas Stirling, Superintendent, 516-434-3601  
Project Name: Above & Beyond STEAM Program

VS30’s Above & Beyond STEAM Program uses STEAM Challenges to provide students with opportunities in solving real-world problems. Students use the teaching and learning conceptual framework of 5Es + 4Cs + 5Ds = Innovations to deepen students understanding of 21st century themes (i.e., global awareness, financial, civic, health and environmental literacy).
School District: Windsor Central School District  
Superintendent: Jason Andrews  
Contact: Barbara Phillips, Director of Data, Accountability and Continuous Improvement, 607-655-8216  
Project Name: The Effective Literacy Instruction Observational (ELIO) Classroom

The ELIO Classroom is making strides in the area of multi-age learning. Students are provided with the opportunity to mentor peers, experience hands-on discovery learning and receive targeted instruction aligned to standards. This environment is building the foundation for students to think critically, communicate effectively and collaborate with one another.

School District: Windsor Central School District  
Superintendent: Jason Andrews  
Contact: Jason Andrews, Superintendent, 607-655-8216  
Project Name: Building the Deliberative Classroom

The Deliberative Classroom is the answer to 21st century learning and can turn our classrooms to places that empower students to change the world. This innovative program brings the classroom to life, results in success for all learners and develops and fosters a culture where all voices are valued.