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Case Study
Statewide Implementation
Intel® Teach Program

"Technology is the tool teachers will use to transform their classrooms into 21st Century learning centers. Intel provides a quality professional development program that aligns with West Virginia's plan for 21st Century instruction, assessment, and technology integration."

Dr. Steven Paine,
West Virginia State
Superintendent of Schools

Growing Number of States Implement the Intel® Teach Program to Deliver 21st Century Instruction

When today's students graduate, they will face a world vastly different than that of their predecessors. And that gap will only widen in an increasingly technological and global marketplace.

As more and more states recognize the importance of teaching children 21st century skills and understand the key role that professional development must play, a growing number are turning to the Intel® Teach Program to get the job done.

Educational Challenges	• To succeed in the global, knowledge economy, students must develop 21st century skills.
	• Professional development must also help teachers acquire these skills and integrate them into instruction.
	• Technology must be effectively integrated into teaching and learning.
	• Ongoing support must be available to help teachers implement new strategies effectively in the classroom.
	• Local leadership must support changes in instructional practice.
	• Professional development must be research-based, with high-quality and consistent, positive results.
Solution Methodologies	• The Intel Teach Program helps implement changes in practice that result in teachers and students acquiring key 21st century skills.
	• Intel Teach builds capacity for local implementation by state-sponsored Senior Trainers in the program.
	• The Program is offered free of charge to Local Education Agencies, including state or regional departments, districts, and schools.
	• The Intel Teach Program offers flexibility of delivery, including both face-to-face training and online options.

Alabama Looks Toward the 21st Century

Since 2000, Intel Teach has been the cornerstone of professional development provided by Alabama Technology in Motion (TiM) staff to train teachers to effectively integrate technology into instruction and help students develop key 21st century skills, such as digital literacy, critical thinking, problem solving, and collaboration.

The program offers a variety of professional development options, from the Intel® Teach Essentials Online Course and Intel® Teach Thinking with Technology Course for teachers, to an Intel® Teach Leadership Forum targeted to administrators. Additionally, the program builds capacity by training local educators to deliver the course curriculum and provide ongoing support as Senior Trainers and Master Teachers.

Local Education Agencies (LEAs) in Alabama make the final decisions on professional development. Intel Teach is becoming a popular choice for a number of reasons: It has a proven track record of success across the U.S. and elsewhere, documented by long-term evaluation data. The training can be delivered by local Alabama Department of Education TiM specialists who already have an understanding of the local education system and resources, and who can provide ongoing support.

Woven Throughout Alabama Programs

The Intel Teach Program has already been so valuable in helping Alabama teachers improve their practice that the Essentials Course curriculum is now an integral part of Alabama's National Board for Professional Teaching Standards (NBPTS) Targeted High Need Initiative (THNI). This program provides pre-candidacy training and support to teachers of minority students from high-poverty schools in an area of the state where there are currently few or no NBPTS-certified teachers. Mentors for the program who have already earned NBPTS certification recommended the Intel Teach course for this use. Maggie Stringer, coordinator of the Alabama THNI program, explains, "The Intel training covers just about everything these teachers need to prepare for National Board

certification. You see, it's not just about the technology. It's about good teaching."

According to surveys completed by THNI participants, the training. "It changed their concept of teaching. It changed their practice," reports Stringer. "One social studies teacher was even able to make a connection between her change in approach and improved test scores. And there were others with the same kind of story."

As a result of successes like these, the Intel Teach material is now woven through efforts across the state. It has been incorporated into subject area initiatives, including the Alabama Reading Initiative (ARI) and the Alabama Math, Science, and Technology Initiative (AMSTI), and is in the process of being woven into a new career tech initiative being implemented by the state.

To date, over 4,000 Alabama teachers have been trained through the program, including more than 200 Master Teachers who deliver Intel Teach courses to their colleagues. "One of our goals is to have at least one Master Teacher at every school in the state," says Hayes.

Systemic Implementation

Beyond Alabama, a growing number of states are implementing the program statewide as Intel Teach Affiliates, including Arizona, Louisiana, New York, North Carolina, Texas, and West Virginia. Additionally, large urban city districts, including Atlanta and Chicago, are using the program to deliver the curriculum district-wide.

Key benefits of systemic implementation include:

- Research-proven professional development on technology integration with a student-centered approach

- Courses that support state and national standards while fostering 21st century skills and content knowledge—relevant for K-12 teachers of all subjects

- A scalable train-the-trainer model that establishes a peer mentor network for ongoing local support and collaboration

"One of the things that is different about this program is that you're actually bringing to the table something with relevance. Teachers bring in their own lesson plans, topics, and subjects, and it personalizes the experience."

Cheri Hayes, Technology in Motion administrator, Alabama Department of Education

> "The truth is, it's not really about the technology. It really isn't. The Intel Teach Program is about sound teaching practice."
>
> Mary Lou Daily, technology consultant, technology planning and support, North Carolina Department of Public Instruction, North Carolina

- State-led approaches that enable the state to control and customize delivery to meet unique needs and priorities for local schools and districts

- Systemic implementation that retains program quality and fidelity by keeping delivery within research-proven parameters

Intel® Education is an active member of the Partnership for 21st Century Skills, a leading advocacy organization intent on bringing policymakers, education leaders, and businesses together to infuse 21st century skills into education. The Intel Teach program is purposefully aligned with the Framework for 21st Century Learning, as well as with other state and national education goals.

West Virginia

When West Virginia, a 21st Century Skills leadership state, set out to revamp instruction to incorporate 21st century learning, they knew that quality professional development would be crucial to the process. "Because it was a new way of thinking for our classroom teachers, we knew we needed to provide guidance in instructional design that included rich, authentic classroom performance/product assessment with accompanying rubrics, and we needed to develop a pool of professional developers across the state who could help us build capacity," says Carla Williamson, executive director of the office of instruction, West Virginia Department of Education (WVDE).

When Williamson and colleagues discovered that the Intel program was based on the same research and developmental approach they had been using to establish 21st century standards and objectives, they decided to implement the program statewide. "It was a perfect fit," sums up Brenda Williams, executive director of the office of instructional technology, WVDE.

North Carolina

The first 21st Century Skills leadership state and four-year participant in the Intel program concurs. "One of the benefits of the Intel Teach Program

is that we don't have to do anything to adapt or tweak the program," says Mary Lou Daily, technology consultant, technology planning and support, North Carolina Department of Public Instruction. "It's a perfect fit with our technology plans and initiatives."

Because Intel Teach is so closely aligned with North Carolina's Future Ready Students for the 21st Century goals and objectives, the Intel Teach Program is recommended in the state's 2007-2009 Educational Technology Plan and integrated into the state's federally funded IMPACT Grant model school initiatives. Additionally, the Intel Teach Leadership Forum is a key component of the IMPACTing Leadership training for administrators. "Any successful implementation of school change must be led by a well informed administration," explains Daily.

"In short, the Intel program is one of the best professional development opportunities we have to help teachers learn to integrate technology and 21st century skills into the classroom," says Daily. "And it's constantly updated." Just as Daily and her colleagues were planning to add Web 2.0 training to their professional development mix, Intel came out with the updated Essentials Course, version 10, incorporating just that. "Intel follows the trends in education—in particular instructional technology—and keeps ahead of the curve with their training."

Texas

"In Texas, Intel Teach has been alive and well for years," says Barbara Smith, program coordinator for instructional technology at the Region 10 Educational Service Center (ESC). But it was several years before the Texas Education Agency (TEA) became involved, asking the Region 10 ESC to implement the program statewide.

"Of course, we knew that a lot of folks in Texas were participating, and we heard a lot of positive feedback," says Anita Givens, senior director for instructional materials and educational technology at the TEA. But it wasn't until Givens started looking at other states' involvement in the program that the state made the decision to become an ITA.

Givens looked around to see how other states were handling technology immersion projects: "In every case, they were using Intel Teach. Here was something that really worked. It worked in our state before. There is evidence that it worked in other states. It just seemed like a perfect fit for what we needed to do."

"In the Technology Immersion Pilot (TIP), every teacher had a laptop, every student had a laptop, and the vendor partners had provided extensive professional development on operations skills of hardware and tools that were provided," explains Smith. "But what was missing was a single focus on pedagogy. And when Intel revised the content in the Essentials Course, we all looked at each other and said, 'That's it.'"

The response to the training for TIP teachers has been overwhelmingly positive, reports Smith. "The teachers have all commented on the robustness of the content. But beyond that, what we saw happen was something else that was missing before: the development of a teacher network. They talked to each other. They exchanged ideas about teaching and learning in the classroom. They became a learning community, and Intel Teach was the glue that brought them all together."

Givens sums it up this way: "Generally, in Texas, one size does *not* fit all. We have over 1,200 school districts and they range in size from 20 kids to 200,000 kids. But Intel Teach meets the needs of every one of them."

The Intel® Education Initiative

The Intel Education Initiative is Intel's sustained commitment to prepare all students, anywhere, with the skills required to thrive in the knowledge economy by improving teaching and learning through the effective use of technology, and advancing math, science, and engineering education and research. Through a sustained public-private partnership with educators and governments in more than 50 countries, Intel works with international organizations and governments at an international, national, and local level. It invests approximately USD 100 million per year in education programs adapted to address the needs of each country to advocate for 21st century educational excellence through policy work and awareness efforts.

For more information, visit: www.intel.com/education.

For more information on the Intel Teach Program, visit:
www.intel.com/education/teach.

"Students absolutely must have 21st century skills in order to be effective learners today and effective citizens tomorrow. We know that they are not going to be able to compete if they don't have the ability to think critically, problem-solve, collaborate, and make decisions.

Anita Givens, senior director for instructional materials and educational technology, Texas Education Agency