



**BRYAN ISD:**  
VISIONING FOR TECHNOLOGY

**CAMBRIDGE**  
STRATEGIC SERVICES



# BRYAN ISD VISIONING FOR TECHNOLOGY

## VISIONING PROCESS

### 1 Process Development

Conduct Awareness Session/s with key administrators

### 2 Build Visioning Committee

Develop Committee to include stakeholders representing various sectors of school district, including participants such as parents, community members, business leaders, administrators, teachers and students

### 3 Research

Identify articles for all Committee members to read that will challenge the thinking of the Committee members

### 4 Vital Signs

Assemble and analyze essential information about the district as a basis for planning

- ▶ District mission and strategic goals
- ▶ Technology Services mission statement and values
- ▶ Bryan ISD Technology Plan, 2007-2010
- ▶ Technology Inventory

### 5 Visioning Workshops

Conduct Visioning Workshops to develop *Findings and Directions* that are aligned with the mission and strategic goals of the District that will serve as a guide for integrating technology into instruction

- ▶ Review research reading
- ▶ Identify strengths and issues
- ▶ 10 Years From Now discussion
- ▶ Discuss open-ended questions
- ▶ Develop *Findings* - statements about how technology should be integrated into instruction; develop *Directions* - statements about how the *Findings* should be accomplished

### 6 Approval

Obtain Board approval for the *Findings and Directions*

# BRYAN ISD VISIONING FOR TECHNOLOGY

## EXECUTIVE SUMMARY

The mission of the Bryan ISD Technology Services Department is to serve the District by providing technological resources and opportunities for the acquisition and development of essential knowledge and skills so that teachers, students, and support staff will utilize emerging technologies to succeed in lifelong pursuits. The District is required by state and federal law to have a technology plan that guides the District's actions in providing technology resources to staff and students. The District assembled a Visioning Committee of stakeholders and partners of the District to identify ways to integrate technology into instruction in order to prepare Bryan ISD students for 21st century challenges. The Visioning Committee was expected to consider and utilize all documents that had been previously created and approved by the District.

The Visioning Committee included 60 members representing all segments of Bryan ISD. Students, teachers, staff, parents, community and business leaders, school board members and representatives from higher education met four times for a total of 24 hours to explore broad concepts of how technology should be integrated with instruction. A comprehensive list of topics and questions were discussed at each meeting, and the discussions were captured in the following document of *Findings and Directions*. The Bryan ISD technology plan will be developed from the *Findings and Directions*.

*Findings* are philosophical statements that describe how the District believes technology should be integrated into instruction in Bryan ISD, and *Directions* are statements that specify how the District will make the *Findings* happen. *Findings and Directions* were defined in the areas of:

- ▶ Learning in the 21st Century
- ▶ Maintaining Outstanding Staff
- ▶ Resources for Learning in the 21st Century
- ▶ Community and Schools
- ▶ System of Schools
- ▶ Environment

## THE VISIONING COMMITTEE

Debbie Abbott	Rebecca Dominy	Julea Johnson	Brandy Pedigo	Susan Surovik
Lauren Adams	Noreen Dooley	Megan Jones	Adren Pilger	Robyn Tarver
Jessica Alonso	Tristen Dunman	Janyce Kinley	Cindy Reynolds	Norma Trejo
Todd Bading	Auston Ellis	Dr. Lucy Larrison	Paul Ritter	Brittany Vavra
Jennifer Bergland	Lee Felder	Jennifer Lemons	Dr. Betty Sanders	Diana Werner
Amber Boriski	Rita Flores	Melissa Martin	Rada Schultz	Dr. Doug Wunneburger
Jackie Brewer	Susan Floyd	Ariana Martinez	Mary Selcer	Dr. Luana Zellner
Dr. Blanche Brick	Dr. George Fowler	Dr. Frances McArthur	Lydia Shipley	
Sam Campbell	John Fuller	Linda Montoya	Desiree Skinner	
Irma Cauley	Janis Greeno	Latisha Moody	Sylvester Smith	
Jerilyn Cleere	Holly Havemann	Ronnie Morrison	Abigail Spiegelman	
Becky Darce	Addie Henry	Robert Nelson II	David Stasny	
Carina Diaz	Mason Hyman	Sharon Ogden	Max Stratton	

The Visioning Committee recommend the following *Findings and Directions* as a plan to achieve the goal of integrating technology into instruction in order to prepare Bryan ISD students for 21st century challenges.

## FINDINGS AND DIRECTIONS

### 1 Learning in the 21st Century

#### FINDINGS

1.1 Technology is a tool that should be an integral part of the learning process.

1.2 BISD should be in the forefront of providing flexible, engaging access to on-line learning from multiple media sources.

1.3 Teacher professional development and curriculum development must precede and support the introduction of new technology.

#### DIRECTIONS

- 1.1.1 Technology will be authentically integrated into instruction
- 1.1.2 Technology Applications TEKS will be taught in each grade level
- 1.1.3 Students will use technology to master required objectives in all courses, as appropriate
- 1.1.4 Provide support (both technical and instructional) for teachers and students as they utilize the technology resources provided by the district
- 1.1.5 Utilize local, national, and international communities to enhance the usage and development of education through technology
- 1.2.1 Collaborate with community based organizations, businesses, institutes of higher education, city, and county officials to create an infrastructure (or improve an existing infrastructure) for adequate access to the internet to enhance student learning
- 1.2.2 Provide additional access for students to participate in online courses for credit
- 1.2.3 Provide up-to-date technology and professional development for teachers that will allow them to create on-line courses and on-line activities to be included in regular courses
- 1.3.1 The district will foster teacher comfort with using technology as an integral tool in the 21st century
- 1.3.2 Technology will be integrated into the curriculum as it is written during the curriculum revision process
- 1.3.3 Provide ongoing professional development to assist teachers in using technology to support student learning in all content areas

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## 1 Learning in the 21st Century

### FINDINGS

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1.4 Education at all levels should integrate seamless, applicable technology to provide a solid foundation for students to become productive lifelong learners with sustainable life skills.

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1.5 Technology should be used to make learning relevant, engaging, and related to the real world.

### DIRECTIONS

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1.3.4 Up-to-date technology will be an integral part of the professional development provided to teachers that will allow them to become highly skilled at integrating technology into their curriculum

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1.4.1 Provide a required technology course at middle school, where students are not involved in one-to-one computing

1.4.2 Embed the following skills into existing curriculum beginning at middle school blending technology with the existing instruction

- Researching the job market
- Applying for jobs and loans
- Understanding budgeting of both time and money
- Navigation on the ground
- Insurance/investment decisions involving risk taking

1.4.3 Offer a college and career readiness course that blends technology into a basic foundation for workplace, society, or community including but not limited to the skills listed above

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1.5.1 Teachers will:

- Develop and teach project and or inquiry based lessons and units that incorporate essential questions with embedded technology
- Create and deliver lessons that reflect research, data analysis, decision making, critical thinking, and problem solving using technology
- Model creation, development and publishing of digital products for students.
- Model instructional use of graphics and video editing in digital products
- Assist students in creation, development and publishing of their own digital products

1.5.2 Students will:

- Use appropriate technology to enhance creative problem solving, collaboration, inventive thinking and imagination
- Use technology to demonstrate their learning
- Use technology to facilitate the collection, analysis, and processing of data as well as the presentation of their learning

## 2 Maintaining Outstanding Staff

### FINDINGS

2.1 In order to maximize the skills and resources of all staff, BISD should provide a technology framework and differentiated support system to promote learning.

### DIRECTIONS

2.1.1 The district will:

- Be responsible for determining the framework, utilizing data from the STaR chart as well as district-developed rubrics that are specific to a job description
- Use data from rubrics to differentiate support in the form of hardware, software, infrastructure, and training specific to the needs of the employee
- Provide an online, face-to-face, and/or collaborative environment, to foster professional growth
- Evaluate annually the job performance of all staff members in utilization of technology as appropriate for their job description
- Seek out ways to reward teachers and staff that show outstanding technology utilization

## 3 Resources for Learning in the 21st Century

### FINDINGS

3.1 Time and personnel should be provided for the development of technological skills leading to productive learning.

3.2 Bryan ISD should have and allow the access to resources that promote productive learning, including, but not limited to electronic and digital assets.

### DIRECTIONS

- 3.1.1 Training will be provided for students and teachers on appropriate uses of technology
- 3.1.2 Technical support will be available for students and staff
- 3.1.3 Advance higher-level learning skills, through the access to information that technology provides
- 3.1.4 Flexibility will be allowed in the day-to-day schedule of the school to meet the instructional needs of students and teachers
- 3.2.1 Classroom technology will be tailored to the needs of the individual course
- 3.2.2 Provide a robust curriculum for learners to analyze and utilize technology integration within core curriculum
- 3.2.3 Bryan ISD will provide a mobile computing device with ubiquitous access for teachers and students, or allow the use of an individual's personal device for educational purposes
- Students in grades PreK-2 will have access to appropriate technology devices that can be readily configured for use in the classroom
  - Students in grades 3-12 will utilize a personal technology device, available 24/7, to continue their learning in and out of the classroom
- 3.2.4 All students and teachers will have access to state of the art multimedia capabilities in every classroom to enhance and enrich the learning experience
- 3.2.5 Appropriate communication tools will be used to supplement and enhance classroom instruction. (Skype, Video Conferencing, Email, Social Networks, Virtual Classrooms)
- 3.2.6 Appropriate online resources, such as digital textbooks, classroom materials, will be provided

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#### DIRECTIONS

- 3.2.7 Community resources, people and space included, will be used to the fullest extent for productive learning
- 3.2.8 Provide access to wireless network, bandwidth and power
- 3.2.9 Provide access to technical support 24/7

## 4 Community and Schools

### FINDINGS

4.1 Mutual communication between the district and media should be an avenue to build positive community relationships.

4.2 BISD should market and collaborate with businesses and corporations to promote and expand technology within the district and surrounding area.

4.3 BISD should work with businesses and higher education institutions to provide students with employment opportunities.

4.4 The district should create partnerships with governments, school districts, and local constituents.

### DIRECTIONS

4.1.1 Acquire community sponsors to buy space for positive BISD News

4.1.2 Social Media/Networking sites will contain current and relevant information about school events and grade level curriculum and instruction

4.1.3 BISD will have active links on medial outlet websites

4.1.4 Collaborate with other school districts, which results in positive media for both districts

4.2.1 BISD will:

- Promote partnerships in the community through technology related events and relationships with professionals and academic leaders
- Partner with business professionals and academic leaders to gain exposure to technology in various professional settings
- Partner with businesses and corporations, along with the Chamber of Commerce, to provide appropriate resources aligned to the mission of BISD
- Work with the Chamber of Commerce to provide marketing materials to businesses and realtors

4.3.1 The district will provide students with the opportunity to access a mentor in the student's field of interest

4.3.2 The district will provide work or internship programs (Co-Op) to students through local businesses

4.3.3 The district will work with higher education institutions for students to experience technological advancements

4.4.1 Develop and enhance infrastructure through technological advances

4.4.2 The district will lobby the state legislature for financial resources

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## 4 Community and Schools

### FINDINGS

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4.5 The district should provide means for individual students and teachers to communicate with the community.

### DIRECTIONS

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4.4.3 Increase parental and community exposure to technology to improve community outreach

4.5.1 Students and teachers will utilize social networking for collaborative learning and sharing information to the community

- Daily classroom updates
- Syllabus
- Teaching Techniques

## 5 System of Schools

### FINDINGS

5.1 BISD should develop a system so that the distance between learners and learning becomes one to one.

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5.2 BISD should maintain/enhance support systems to accommodate contemporary learning spaces.

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5.3 BISD should communicate the vision of contemporary learning spaces through research educating and advocating.

### DIRECTIONS

5.1.1 Contemporary learning spaces, without walls, will foster flexibility, freedom, and choice through virtual opportunities. Contemporary learning spaces evolve when school, home, and community spaces increase flexibility, with learning taking place outside the boundaries of school building and beyond the school day

5.1.2 Students will participate in global communication and collaboration

5.1.3 BISD will develop a scheduling system allowing more flexibility, choices, and options

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5.2.1 Equip teachers with training and resources to teach in a contemporary learning space

5.2.2 Provide a scheduling system to allow for individualization of courses

5.2.3 Coordinate with city and university busses to develop a transportation infrastructure

5.2.4 Maintain a current and expanding data management system

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5.3.1 Develop an advocacy group of parents, business, educators, and students to promote legislation to expand technology for Contemporary learning spaces

5.3.2 Research public and private entities for best practices in technology

5.3.3 Educate students, parents, and community about the opportunities for virtual learning

5.3.4 Survey students to address technology needs and current practices

### FINDINGS

6.1 Students should have access to flexible educational environments.

### DIRECTIONS

- 6.1.1 Virtual resources provided over the Internet will be available to all faculty, students and other stakeholders
- 6.1.2 Provide extended school hours and transportation
- 6.1.3 District will offer courses outside the traditional school day; virtual and face-to-face
- 6.1.4 When district buildings are renovated or constructed, they will be designed for flexible grouping to allow student collaboration
- 6.1.5 The district will communicate changes in the educational environment to stakeholders

## NEXT STEPS

### → February - March

- ▶ Subcommittees to develop year one of the Technology plan based on *Findings and Directions*

### → April

- ▶ Input from Board of Trustees and administration
- ▶ Revisions based on input

### → May

- ▶ Presentation to Board of Trustees for consideration and possible approval