

MDUSD Roadmap to a Strategic Technology Plan

Board Study Session, 9/22/20

Robert C. Sidford, Director of Technology and Innovation

Dr. Lisa Gonzales, Chief Business Officer





Our students live in a rapidly changing world

2007

2010

2015

2020

2033

The Future of Work

*Many of today's school children will work in **new job types that do not yet exist**, most of which are likely to have an increased premium on both digital and social-emotional skills.*

*In an increasingly interconnected world, future workers will be expected to **collaborate with peers** residing in various parts of the globe, **understand cultural nuances** and, in many cases, **use digital tools** to enable these new types of interactions.*



Figure 2: The World Economic Forum Education 4.0 Framework

Content (built-in mechanisms for skills adaptation)

Global citizenship skills

To include content that focuses on building awareness about the wider world, sustainability and playing an active role in the global community.



Innovation and creativity skills

To include content that fosters skills required for innovation, including complex problem-solving, analytical thinking, creativity and systems-analysis.



Technology skills

To include content that is based on developing digital skills, including programming, digital responsibility and the use of technology.



Interpersonal skills

To include content that focuses on interpersonal emotional intelligence (i.e. empathy, cooperation, negotiation, leadership and social awareness).



Personalized and self-paced learning

From a system where learning is standardized, to one based on the diverse individual needs of each learner, and flexible enough to enable each learner to progress at their own pace.



Accessible and inclusive learning

From a system where learning is confined to those with access to school buildings to one in which everyone has access to learning and is therefore inclusive.



Problem-based and collaborative learning

From process-based to project and problem-based content delivery, requiring peer collaboration and more closely mirroring the future of work.



Lifelong and student-driven learning

From a system where learning and skilling decrease over one's lifespan to one where everyone continuously improves on existing skills and acquires new ones based on their individual needs.



Experiences (leveraging innovative pedagogies)

What skills do our students need to thrive in a modern, technology-rich world?

Which student would you hire?

Student A

Math

ELA

Science

Social Studies

The Arts

Student B

Content Mastery

Modern 21st Century Learning Skills

Digital Literacy

Responsible Digital Citizen

Ability to Learn in a Variety of Modalities

Computer Science and Computational Thinking

Portrait of an MDUSD Graduate

Effective & Ethical User of Technology

Health & Wellness Advocate

Global Citizen and Responsible Worker

Effective Communicator

Complex Thinker

Community Contributor

Self-Directed Learner



Effective & Ethical User of Technology:

Ethically and thoughtfully employs a variety of digital media and technology to communicate, analyze and organize information, and create products and solutions.

Effective Communicator: Proficient in writing, speaking and listening adapted to audience, task, purpose and discipline.



Why Technology?

- It's NOT about technology ... (it's about learning!)
- Our students deserve equitable access to educational experiences that help them graduate ready for careers, college, and life
- Modern educational resources help students prepare for a complex, technology-rich world
- Educators rely on modern technologies to empower effective instruction, particularly using digital tools that engage and assess

Challenges and Opportunities

Challenges:

- Equitable Access to Devices and Connectivity
- Supporting Distance Learning
- Professional Learning to Meet the Needs of Teachers and Staff
- Ensuring Student Safety and Privacy
- Establishing a Strong Cybersecurity Posture
- Adequate Enterprise-level Technology Support
- Ensuring Sustainability

Opportunities:

- Supporting Digital Learning Tools that Support Meaningful Instruction
- Modernize Business Plus
 - Fully utilize scope
 - Examine business processes - reviewing
- Coordination of Technology Purchasing
- 1:1 Technology Programs

A Call to Action

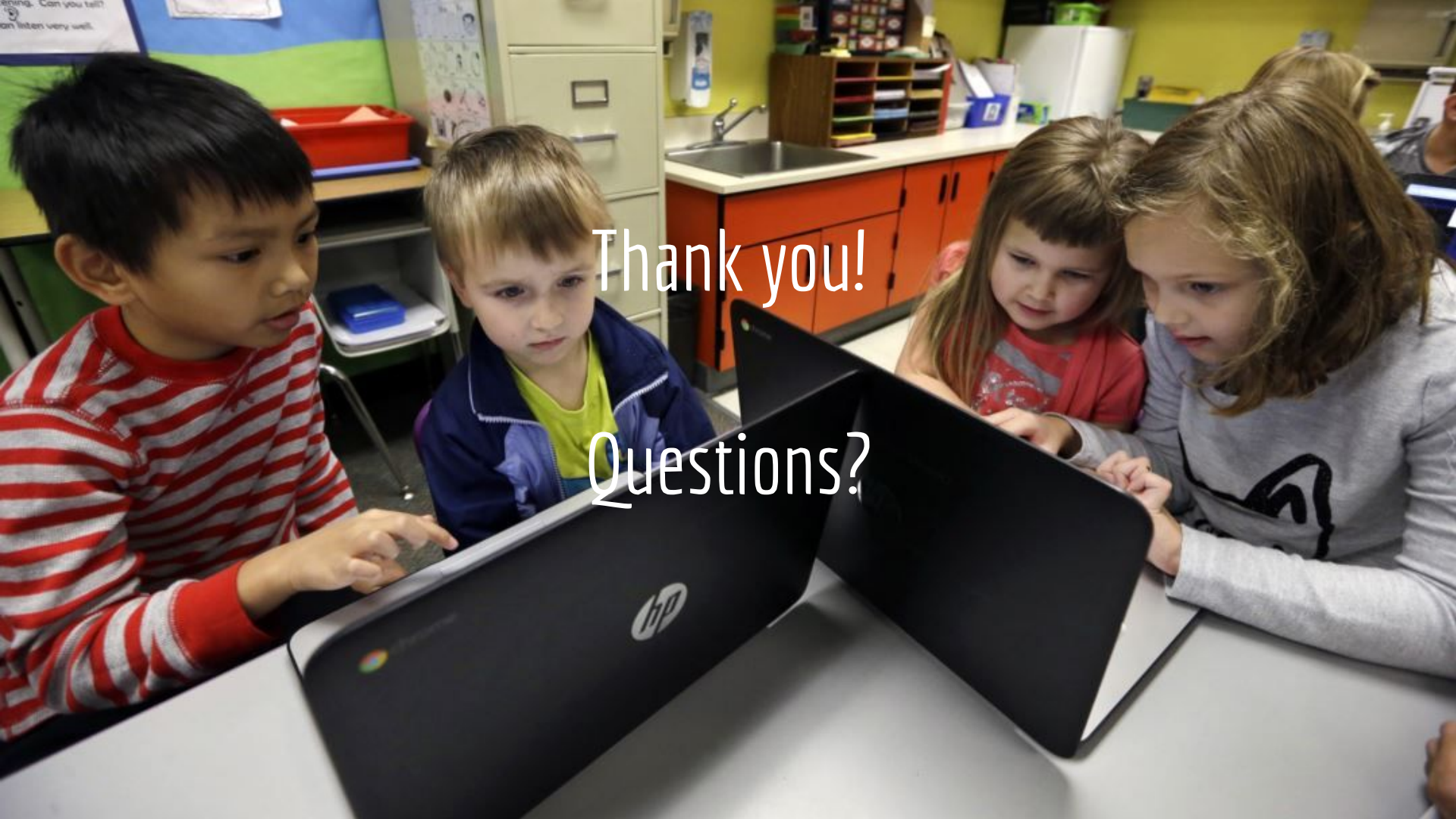
Develop a long-range **strategic technology plan** for MDUSD technology focused on **learning and teaching** and **core business services**



Components of Technology Plan Development

- Learning and Teaching
 - Distance, Hybrid, Face-to-face
 - Modern Learning - digital literacy, digital citizenship
- Equitable, Available Technology
 - Robust Network Architecture - Network Assessment
 - Sustainability - Refresh Cycles
 - Enterprise Approach to Technology Support
- Security, Safety, and Privacy
 - Cybersecurity - Cybersecurity Assessment
 - Safe, Secure Digital Tools
- Best Practices
 - Digital Advisors
- Funding
 - Responsible Use of Measure J
 - E-Rate





Thank you!

Questions?