Leveraging Emerging Technologies

Shea Tanis Ph.D.
Kansas University Center on Developmental Disabilities

May 4, 2022
AUCD TA Institute
Agenda

➢ Presentation (30 min)
➢ Discussion (45 min)
   ➢ What role do UCEDDs play in this area?
   ➢ How can this work be funded?
   ➢ How can UCEDDs collaborate towards the greatest impact in this area?
Jamboard Link

https://jamboard.google.com/d/1-ztf87VzVgLeT07lyzfbMpJnEOrqWz0pwMktJ0bSCqI/edit?usp=sharing
Technology Transformation

**ORGANIZATIONAL**
- Digital transformation
- ICT strategy and investments
- Hiring, developing, and retaining talent
- Understanding and advancing ICT accessibility and procurement
- Supporting dynamic and agile solution development and execution

**INDIVIDUAL**
- Technology solutions for personal use and improving QoL
- Equity and access
- UX and disability
- Applications and adaptations of emerging technologies
- Training and technical assistance
- Research and knowledge generation
While the organization as a whole is becoming more and more interdependent, the parts increasingly display choice and behavior independently. The resolution of this dilemma requires a dual shift of paradigm. The first shift will result in the ability to see the organization as multiminded, sociocultural system, a voluntary association of purposeful members who have come together to serve themselves by servicing a need in the environment... The second shift will help us to see through chaos and complexity and learn how to deal with an interdependent set of variables.

- Jamshid Garajedaghi
Are you ready for digital transformation?
• Requires a thoughtful ICT/digital strategy with full organizational buy-in

• What are your goals? (Communications, organizational efficiencies, data mining and management, digital accessibility, etc.)

• What are barriers and levers? (Consider systems, structures, programs, and people)

• What are the resources internal and external?

• How will you scale and evolve?

“Digital transformation is the integration of digital technology into all areas of a business, fundamentally changing how you operate and deliver value to customers. It’s also a cultural change that requires organizations to continually challenge the status quo, experiment, and get comfortable with failure.”

DIGITAL TRANSFORMATION

“Digital transformation is the integration of digital technology into all areas of a business, fundamentally changing how you operate and deliver value to customers. It’s also a cultural change that requires organizations to continually challenge the status quo, experiment, and get comfortable with failure.”

KU
THE UNIVERSITY OF KANSAS
TALENT DEVELOPMENT

• Challenge of identifying and retaining talent

• Investigate knowledge base and career pathways (communications, computer science, UX designer, engineers, operational systems, etc.)

• Tap into new talent pools within the academic environment to generate new career pipelines (ex. TeachAccess)

• Cross-train to develop assets

• Reskilling and upskilling to address future gaps
Digital transformation can create new areas of expertise. Consider your own assets and where you can transform the narrative and build new and in-demand programs.

Example: Workplace accessibility
Advancing Access to Technology Solutions
KNOW YOUR STRENGTHS

Community Needs
• Technology training
• Accessibility
• Impact of emerging technologies and adapted technologies
• Impact of technology on daily activities, QoL, etc.
• Policy modernization
• Knowledge translation
• Technology development is fast and agile with large corporations directing their own UX design and research.

• Funding for technology innovations, applications, and research comes from a wide variety of sources.

• Applying and evaluating technology solutions is for people with ID/DD is in its infancy.

• Short-term projects turn into long-term relationships.

Constantly review and evaluate applications of emerging and disruptive technology solution.
2022 TECH DISRUPTORS

- Digitization - something (system, process etc.) to be operated with the use of computers and the internet

- Datafication – something is turned into data

- Virtualization – converting (something) to a computer-generated simulation of reality

Disabled and here collection https://affecttheverb.com/collection/
CONSIDER THE QUESTIONS...

- What if the outcomes of research and design in technology centered disability justice from the beginning?
- Who is missing in technology conversations?
- Where is there inequity in access?
- What can UCEDDs do to train the next generation of professionals and users?
- What would it look like for people with ID/DD to have full access to promise of technology?
RECOMMENDATIONS

• Every UCEDD should have a trainee from tech related disciplines

• Every UCEDD should have expertise in digital accessibility and be seen as a resource for the University – WebAIM & TeachAccess

• Every UCEDD should have a digital transformation strategy that aligns with their University’s ICT investments

• Every UCEDD should upskill to develop training programs that focus on ID/DD and technology

• Every UCEDD should look to investigate implications of emerging technology solutions for community living
Discussion
What Role Do UCEDDs Play In This Area?
Quantified Self
How Can This Work Be Funded?
12 Funding Authorities
How Can UCEDDs Collaborate Towards The Greatest Impact In This Area?
Contact Information

Shea Tanis
Email: Tanis@ku.edu

Kansas University Center on Developmental Disabilities (KUCDD)

Email: kucdd@ku.edu
Phone: 785-864-7600