ACTT's Online Conference 2020

Future of Online Learning Quality-Best Practices in Artificial Intelligence and Competency-Based Credentialing

Roundtable 2: Educational Partners

November 5th, 2020

Ulrich Rauch
University of Trinidad and Tobago

THE UNIVERSITY OF TRINIDAD AND TOBAGO

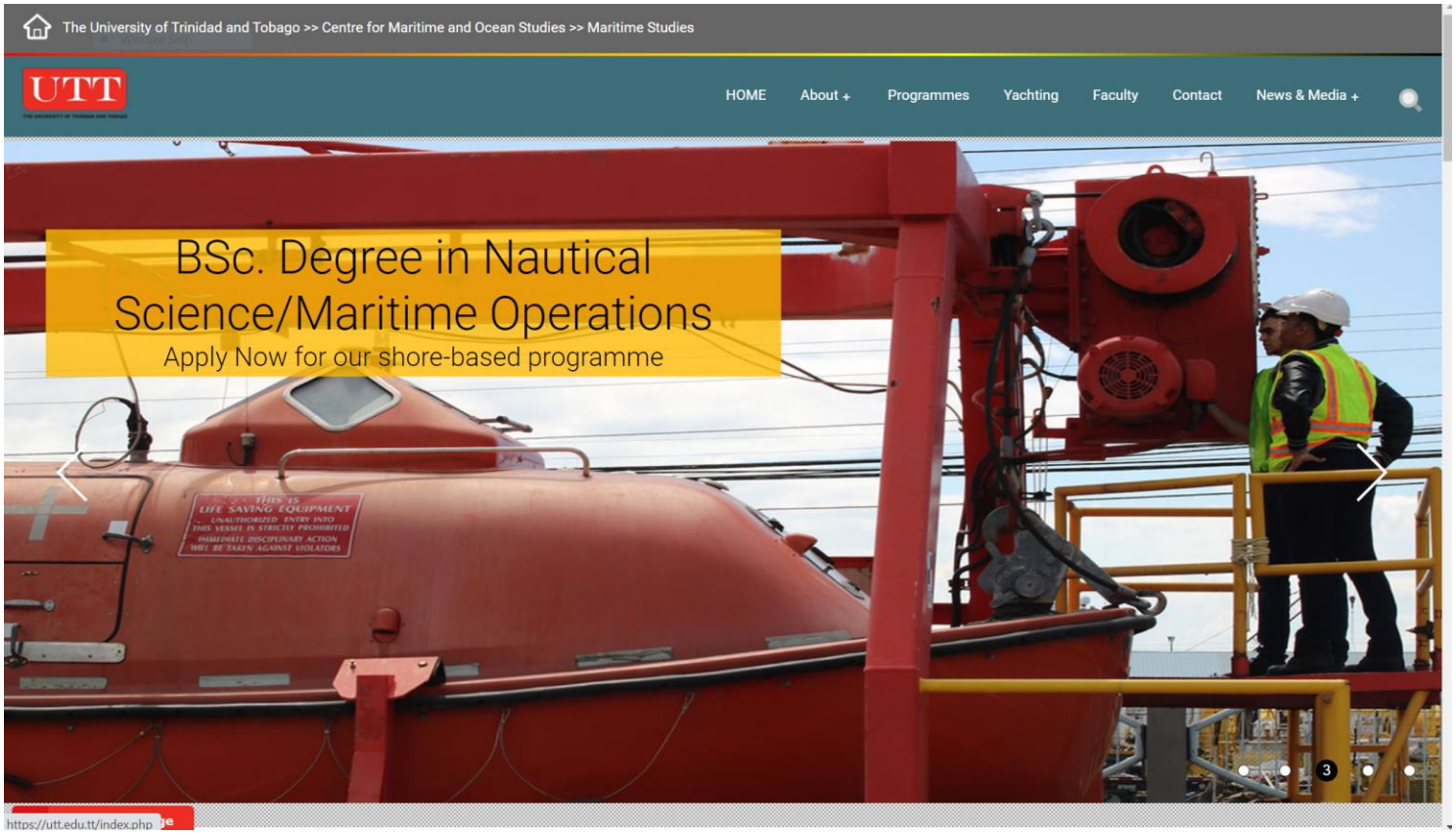
Post Covid Pathways

RESTORE	EVOLVE	TRANSFORM
#1. Cost Management Reducing institutional costs and increasing workforce effciency	**#1. Student Success** Advancing student support services to help students attain academic and career goals	**#1. Institutional Culture** Contributing to a culture of transformation
#2. Online Learning Strengthening online and hybrid education	**#2. Equitable Access to Education** Providing technologies, support, and policies for diverse users	**#2. Technology Alignment** Identifying and applying sustainable digital strategies and innovations
#3. Financial Health Revising budget models and IT governance	**#3. Online Learning** Progressing from emergency remote teaching to online learning	**#3. Technology Strategy** Developing an enterprise architecture that keeps pace with strategic change
#4. Affordability & Digital Equity Providing increased support for students' technology needs and enabling technology availability	**#4. Information Security** Developing a cybersecurity operations strategy	**#4. Enrollment & Recruitment** Exploring and implementing creative holistic recruitment solutions
#5. Information Security Providing information security leadership	**#5. Financial Health** Partnering to develop new funding sources	**#5. Cost Management** Focusing on digital transformation

Educause's 2021 "Top IT Issues" fell into three scenarios: Restore, Evolve and Transform. Source: "Top IT Issues 2021: Emerging from the Pandemic," an Educause conference session presented by Susan Grajek.

Micro/Nano Credentialing @ UTT

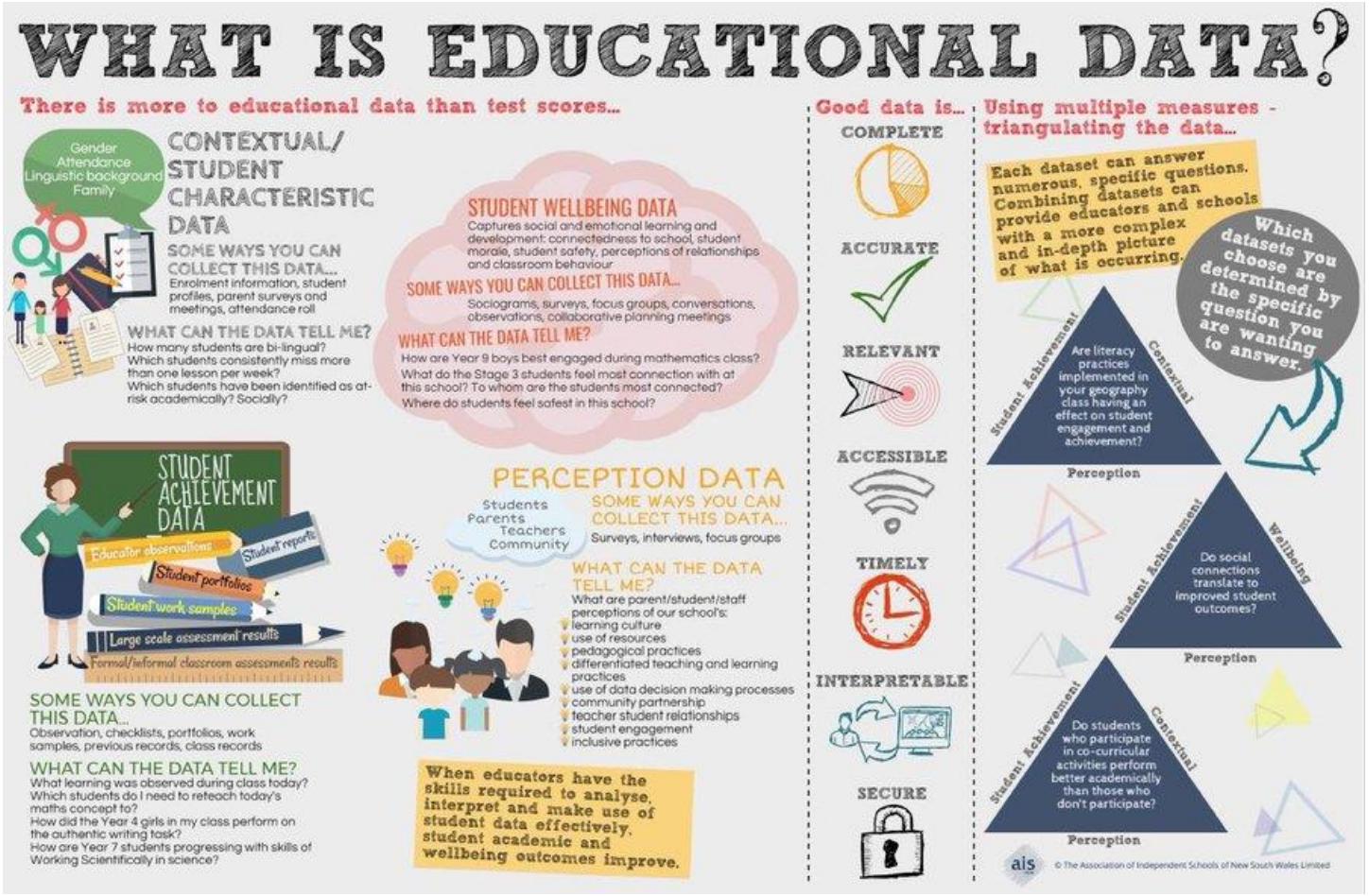
Maritime Technology Cooperation Centre – Caribbean (MTCC)



The Virtual Handshake …

AI – what are we using it for?

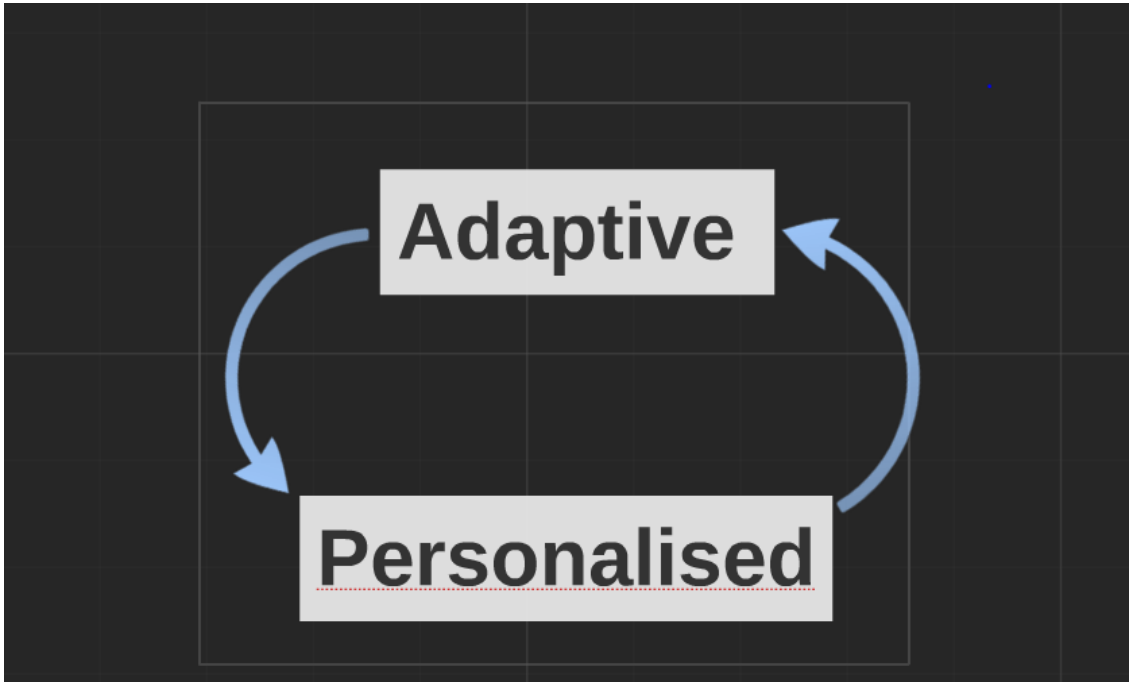
- Grading – repetitive processes
- Support teaching --- augmenting the instructor
- Data mining of student information



Retrieved from: https://images.app.goo.gl/64jFDtytGdVcJvoJ8

Adaptive Learning …

- Khan Academy
- EdX
- Udacity
- Coursera



Personalisation + AI + Machine Learning

Cognitive Computing

- Cognitive Computing is based on self-learning systems that use machine-learning techniques to perform specific, human-like tasks in an intelligent way.

Grading & Assessment

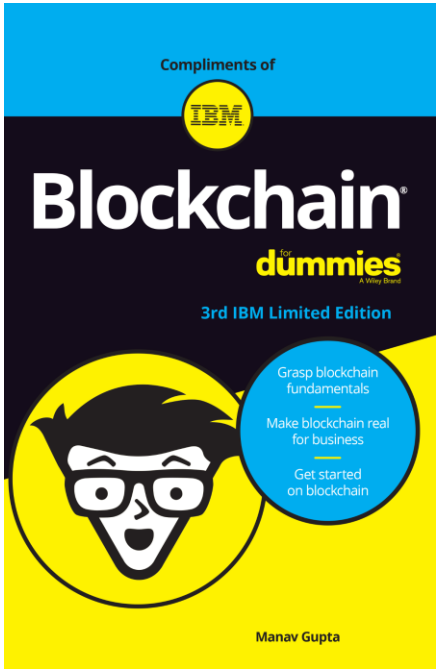
- Digital badges: acknowledge achievement and record the acquisition of skills
- Use with a self-paced learning environment (e.g. a MOOC) that is integrated into a LMS

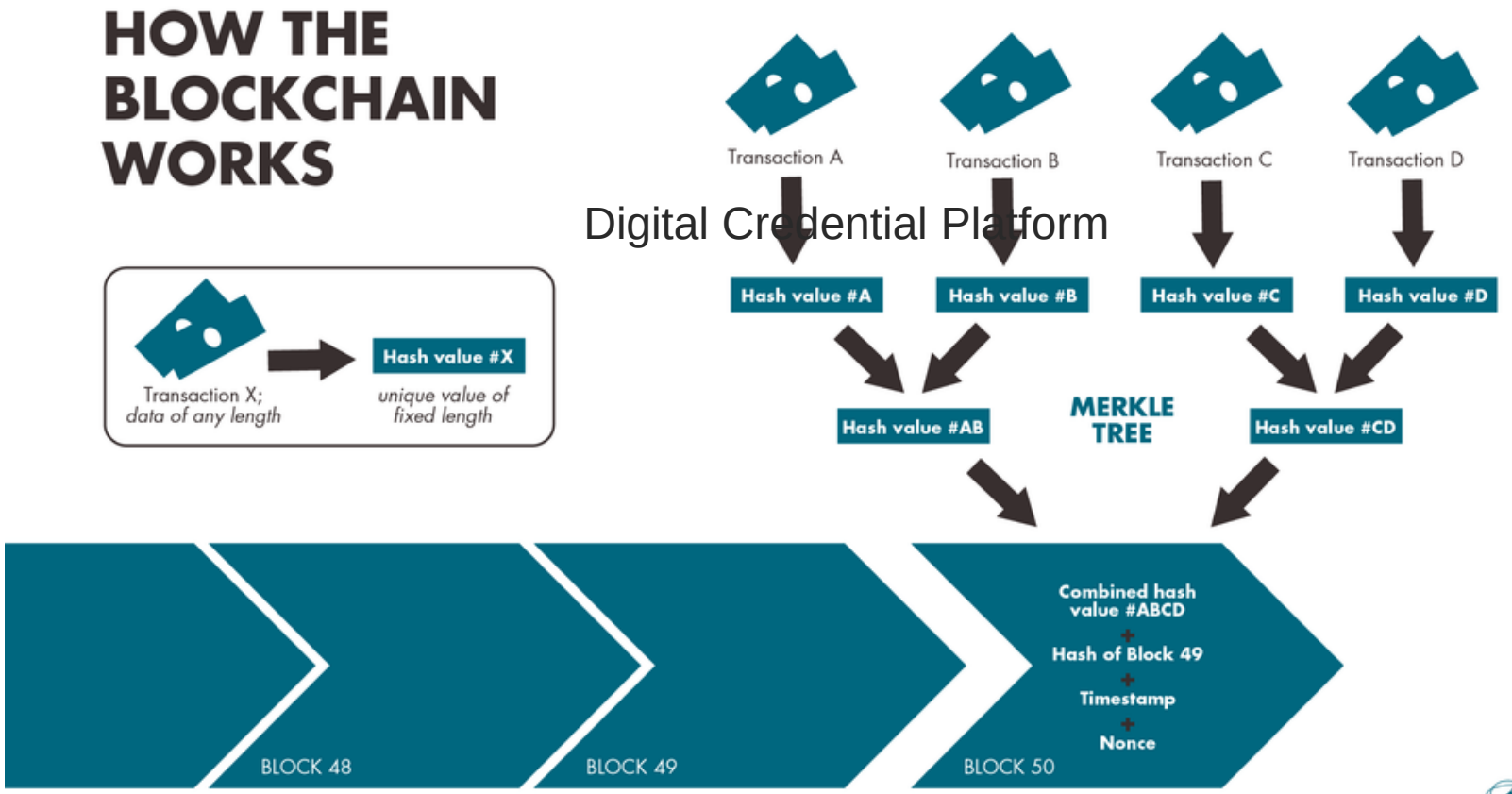
Data Control

Ethics

Micro Credentials and Block Chain

Automate the digital badges issuing process after a learning module, course, or program is completed.





Reproduction of an original figure in "The Great Chain of Being Sure About Things" by the Economist

Center for Global Development

Badges

uBadges: Earn.Issue.Share.Rewards.
Digital Badges + Blockchain = Universal Transcripts
Supporting Skill Development and Lifelong Learning!
Learner-Owned
uBadges embrace Blockchain to improve data verifiability, availability, and reliability for the evidence of learning. Powered by Blockcerts and OpenBadges technologies to ensure the Integrity of the Digital Certificates
We Issue
OpenBadges
Blockcerts
uBadges provides an institutionalized hierarchical Issuer structure to avoid badge silos within Fresno State!
One University
One Solution
EST.
1911
Fresno State
uBadge's new Pathway enables Interoperability of Digital Badges for Macro-Rewards.
Earn Anywhere,
Get Rewards
Everywhere!
uBadges: Fresno State Blockchain-powered Micro-credential Platform
2018-19 Cal-State Innovation Grant Award Recipient.
Presented by Technology Services
FRESNO STATE
Discovery. Diversity. Distinction.
President's
SHOWCASE
of Excellence 2019

Recommendations to ACTT

- Create an Open Badges based ecosystem for TnT institutions and the Region
- Catalyse the Build of a Digital Credential Platform
  - Use open standards to avoiding vendor lock-in (and mitigate bias embedded in algorithms)
    - Badges developed based on Blockcerts, an open standard for building apps that issue and verify blockchain-based official records
  - Embrace Blockchain technologies to improve data verifiability, availability, and reliability for the evidence of learning.

Thank You!

ulrich.rauch@utt.edu.tt