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for Trusted Blockchain Applications

Key Takeaways from the *Redefining Learning* Workshop

INATBA Education Working Group

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Takeaway 1:

HOW EMERGING TECHNOLOGIES ARE RESHAPING EDUCATION

- Emerging technologies (AI, blockchain, AR/VR) are transforming education by making learning more student-centered and decentralized.
- AI tools like ChatGPT are already helping students with revision, critical thinking, and creativity.
- Blockchain and decentralized platforms enable students to take ownership of their learning and create verifiable digital credentials.

We are not moving away from values, leadership, and the mission of education. We are building on these and using technology to empower learners.



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Takeaway 2:

FROM PASSIVE TO ACTIVE: THE RISE OF STUDENT-OWNED LEARNING

- Technologies like AI and blockchain shift power from institutions to students, allowing them to control their own educational paths.
- Decentralized platforms can offer more flexible, peer-driven learning models.
- Self-sovereign identity (SSI) allows students to own their credentials rather than relying on institutions.

With decentralized learning, students can take control of their own learning and be creators of their own future... It's not just about plagiarism. These technologies allow students to be more efficient, transparent, and creative.



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Takeaway 3:

LEADERSHIP & STRATEGY: DRIVING DIGITAL TRANSFORMATION IN EDUCATION

- Vision and leadership are critical for successfully implementing digital transformation in education.
- Institutions need a clear roadmap and strong leadership to integrate new technologies effectively.
- Cost and efficiency concerns must be addressed to make digital transformation viable for educational institutions.

Not all educational institutions have leaders, but leadership is a team effort. A leader must have a vision of the future and involve learners in redefining education.



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Takeaway 4:

THE RISE OF TOKENIZED LEARNING & GAMIFICATION

- Tokenized incentives (Learn-to-Earn, Teach-to-Earn, Peer-Review-to-Earn) can enhance engagement in online education.
- Blockchain can enable micro-credentialing where students earn tokens for learning achievements.
- Reputational tokens (non-financial blockchain assets) can serve as digital certifications.

Passing a lesson can earn you a certain token that can later reap rewards. This can be financial or non-financial, but it's a massive motivation for self-regulated learning.



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Takeaway 5:

BLOCKCHAIN IN EDUCATION: BREAKING BARRIERS & BUILDING TRUST

- Digital credentials can solve issues of fraud, verification, and cross-border recognition of degrees.
- Interoperability is a major challenge – universities use different LMS systems, making blockchain adoption complex.
- Regulatory barriers (GDPR, privacy laws, data management) need to be resolved before blockchain can be mainstream in education.

Blockchain-based learning records must be recognized by employers and universities. Otherwise, the entire concept is dead on arrival.



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Takeaway 6:

SUSTAINABILITY & FUTURE-PROOFING OF BLOCKCHAIN-BASED EDUCATION

- How do we ensure that blockchain-based credentials last 50+ years?
- Will the blockchain infrastructure remain accessible? If a chain disappears, do credentials become useless?
- Regulations and governance models need to address long-term sustainability of blockchain education records.

Blockchain records are permanent, but how do we ensure they remain accessible decades from now?



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