Blockchain learning: can crypto-currency methods be appropriated to enhance online learning?

Conference or Workshop Item

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Blockchain learning:

Can crypto-currency methods be appropriated to enhance online learning?

A talk by Peter Devine  |  Wednesday 9th December – 2015, 11:00am – 11:30am
ALT ONLINE WINTER CONFERENCE 2015  |  altc.alt.ac.uk/online2015

Institute of Educational Technology, The Open University
What is Blockchain?
Blockchain: Blueprint for a New Economy

Melanie Swan
Can crypto-currency methods be appropriated to enhance online learning?

Bitcoin; an online currency and payment system...

Peter Devine – Institute of Educational Technology. The Open University
MegaBigPower
CEO Dave Carlson inside
North America’s biggest bitcoin
mine as of April 2014.
1 Bitcoin = £261.9

Exchange rate calculated using USD Bitcoin price via Preev.com
06 December 2015, 23.00hrs

Blockchain Learning – Can crypto-currency methods be appropriated to enhance online learning?

Peter Devine – Institute of Educational Technology, The Open University
Can crypto-currency methods be appropriated to enhance online learning?

Example of a Bitcoin address: 3J98t1WpEZ73CNmQviecrnyiWrnqRhWNLY

Example of a Private key: ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Peter Devine – Institute of Educational Technology. The Open University
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What is Blockchain?

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For information regarding Smart Contracts
Ethereum.org

Peter Devine – Institute of Educational Technology. The Open University
What is Blockchain?
Can crypto-currency methods be appropriated to enhance online learning?
Last block
Total BTC sent: 34801.03715661
Transaction amount: 2463
Received: 21.71052675 BTC
Time: 16:48 06/12/2016

Time since last block

Selected transaction
Click on the moving transaction to select it.

youtu.be/kVRzIY6zh00
What is Blockchain Learning?
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Centralised

Peter Devine – Institute of Educational Technology. The Open University
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De-centralised

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Income & Expenditure

Teaching & Learning

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Academic development  Educational finance

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Can crypto-currency methods be appropriated to enhance online learning?
What is Blockchain Learning?
Example 1
A possible application of The Blockchain in learning and teaching –

Exposé the student learning record to the public

Peter Devine – Institute of Educational Technology. The Open University
Can crypto-currency methods be appropriated to enhance online learning?

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Can crypto-currency methods be appropriated to enhance online learning?
Example 2

A possible application of The Blockchain in learning and teaching –

Offsetting costs of learning using peer-to-peer network
Can crypto-currency methods be appropriated to enhance online learning?
Can crypto-currency methods be appropriated to enhance online learning?

Decentralized Cloud Storage

Storj is based on blockchain technology and peer-to-peer protocols to provide the most secure, private, and encrypted cloud storage.

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Next steps and conclusion