Blockchain & online learning
How many of you... own bitcoin...
We build beautiful online courses on topics that matter.
Built 500+ online courses with 100+ social sector partners
TC116
Blockchain for International Development
How I feel trying to explain Blockchain technology
Blockchain is

...a ledger, a distributed, digital ledger.
How it works?

How a blockchain works

1. A wants to send money to B
2. The transaction is represented online as a 'block'
3. The block is broadcast to every party in the network
4. Those in the network approve the transaction is valid
5. The block then can be added to the chain, which provides an indelible and transparent record of transactions
6. The money moves from A to B
Blockchain for social impact

- Supply chain management
- Aid distribution
- Voting processes
- Health record storage
- Remittances
- Identification systems
- Land tenure
- Educational credentialing
The history and future of online learning

**PHASE 1**
- Self-paced, linear, slide-based, quizzes, and videos, centralized in university systems

**PHASE 2**
- Discussion boards, activity feeds, profiles, MOOCs, and mobile and micro-learning

**PHASE 3**
- Personalized, lifelong, soft-skills focused, and decentralized

Engagement

~2010

Present
How we’re thinking about phase 3 at TechChange

Data-Driven Layer (Learning Record Store) + Adaptive Learning Engine (AI) + Small Group Problem Solving Channels + Virtual Soft-Skills Development (Empathy, Grit, Emotional Intelligence, adaptability)
Where does blockchain fit in? Decentralized credentialing

LEARNING MACHINE

Secure platform for issuing educational records

Format is tamper proof, recipient owned, and independently verifiable
Blockchain is not...

...the solution to all the world’s problems, but it could help provide more transparency and shared ownership to how we track and measure educational achievements.
Let’s talk more!

Website: TechChange.org
Email: nick@techchange.org
Blockchain case studies

WFP Blockchain Against Hunger: Harnessing Technology in Support of Syrian Refugees

Not just hard skills...

Let’s track and develop what also matters: empathy, self-confidence, grit, emotional intelligence...
The majority of online learning can be reduced to these six interaction types:

- Linear, self-paced slide-based and video content
- Learner profiles
- Discussion boards and forums
- Webinars
- Massive Open Online Courses (MOOCS)
- Multiple choice quizzes