



# Recognition in a digitized world

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# Change<sup>2</sup>



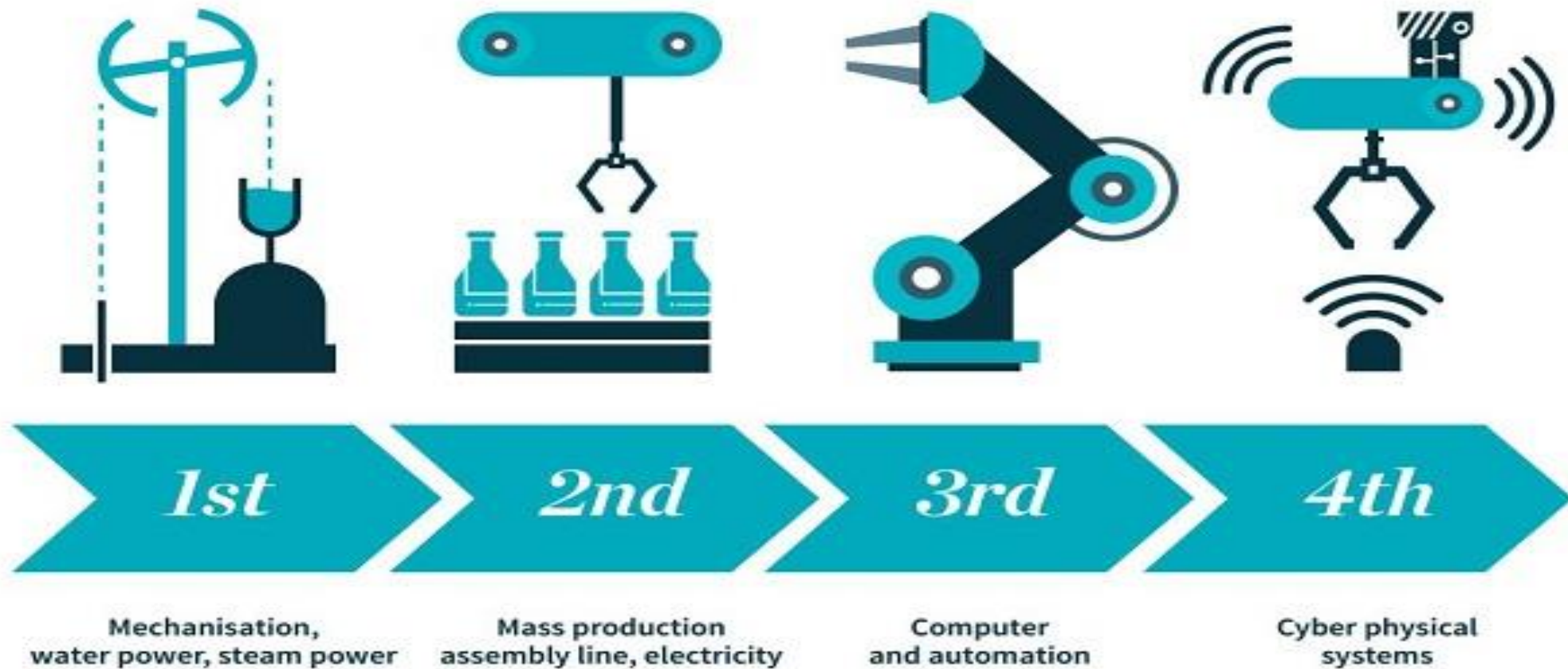
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The skills we need will be dramatically different

Anything that cannot be digitized or automated will become extremely valuable

Human-only traits such as creativity, imagination, intuition, emotions and ethics will be even more important in the future because machines are very good at simulating but not at being

Not individual systems but new ecosystems



Education became available to the middle classes and the merchant and craft guild system developed.

The 19<sup>th</sup> century brought with it a wave of liberalism and consciousness of equal rights and opportunities, closely accompanied by increased urbanisation. The increased need for skilled manpower eventually resulted in an emphasis on credentialism that persists to the present day.

During the 20<sup>th</sup> century the emphasis shifted to human capital theory and technological development, eventually leading to concerns whether the education system was able to meet the demands of the labour market.


In the future the skills we need will be dramatically different. Anything that cannot be digitized or automated will become extremely valuable. Human-only traits such as creativity, imagination, intuition, emotions and ethics will be even more important.











“As technology changes, so too will  
forms of credentialing”

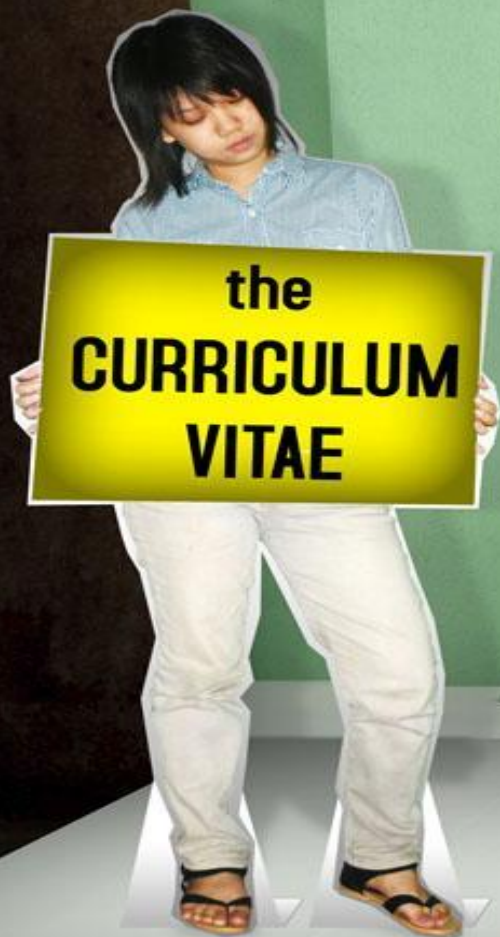
Ifenthaler *et al* 2016



Visual tokens of achievement, affiliation, authorization, or other trust relationship sharable across the web. Open Badges represent a more detailed picture than a CV or résumé as they can be presented in ever-changing combinations, creating a constantly evolving picture of a person's lifelong learning





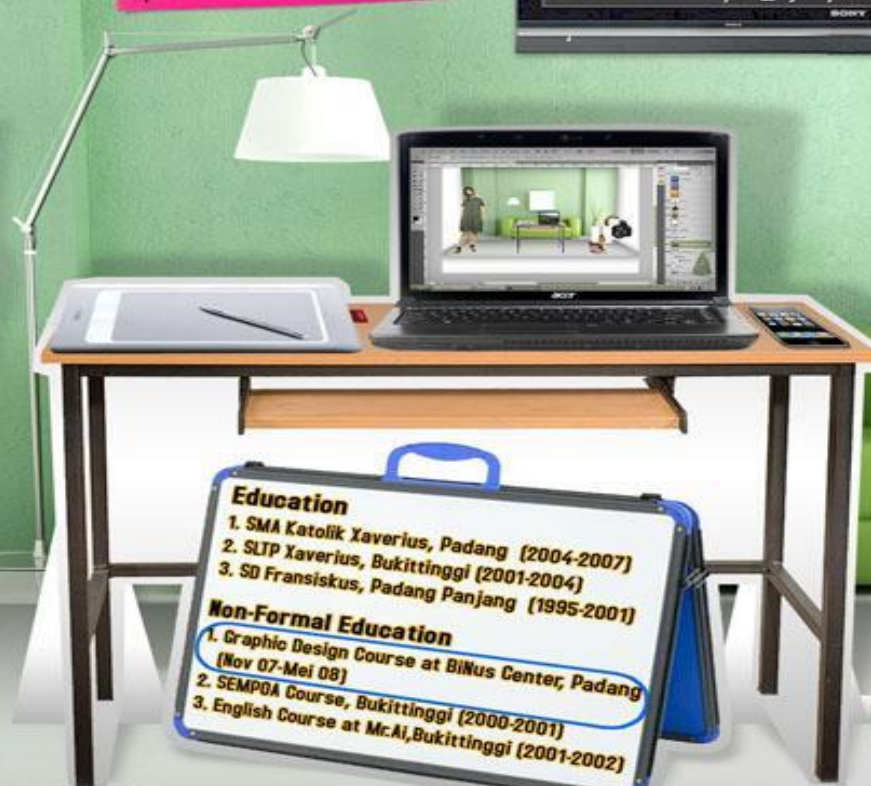


### More About Me:

- Creative & Positive Thinking  
Let's Think Out Of The Box!
- Self Motivated, Hard Worker  
& Never Stop Learning
- Friendly, Team Work, Optimists
- I'am a Junior Graphic Designer would like to develop my skill in digital imaging, advertising and others, and be a part of the success of your company!

### Personal Details

Name : Marina Mayori Tios  
Age : 21th  
Education : Senior High school Graduated  
Birth : Bukittinggi, July 17<sup>th</sup> 1989  
Sex : Female  
Status : Single  
Address : - Jl. HOS Cokroaminoto No.79 , Padang  
              - Jl. Soekarno Hatta No.3D , Padang Panjang  
Phone : 085274121310  
E-Mail : y0ri\_aje@yahoo.com



### Education

1. SMA Katolik Xaverius, Padang (2004-2007)
2. SLTP Xaverius, Bukittinggi (2001-2004)
3. SD Fransiskus, Padang Panjang (1995-2001)

### Non-Formal Education

1. Graphic Design Course at BiNus Center, Padang (Nov 07-Mei 08)
2. SEMPDA Course, Bukittinggi (2000-2001)
3. English Course at McAi, Bukittinggi (2001-2002)

Ps

Ai

Ae

Fl

### Other Skills

- Able to hand drawing & sketch
- Able to operated Ms.Word, Ms.Power Point, Ms.Excel

### Hobbies & Interest

- Graphic Design,Digital Art, Motion Graphic,3D Art
- Music
- Photography
- Bicycling,Badminton, Basketball





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# Benefits of digital credentials

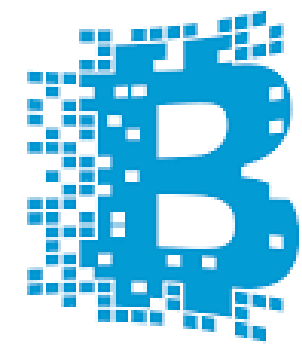


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Digital credential will play a key role for employers to get closer to defining the skills they need

Rewarding and recognising learning in bite-sized chunks, allowing learners to showcase and communicate their achievements in a way that employers can really understand

Visibility of the employee workforce and the skills that they can use as a business



# BLOCKCHAIN

Friday, September 22, 2017, 11:50 by Ivan Martin

## Malta becomes first country to explore blockchain education certificates

Learner no longer needs permission of issuing institution to share certificate



The government has launched a pilot project to explore the possibility of issuing educational certificates on the blockchain.

The project will see diplomas at MCAST, training certificates at ITS, and equivalence statements, accreditation and licensure from the NCFHE, all issued on the emerging technology this year.



1

2

3



Alice wants to  
send money to Ben



The first **block** is created online  
and represents **the transaction**



The **block** is **broadcast**  
to every party in the network

4

5

6



Those in the network approve  
the **transaction** and validate it



The block is then added to the chain  
which provides a permanent,  
non-repudiable and **transparent**  
**record of the transaction**



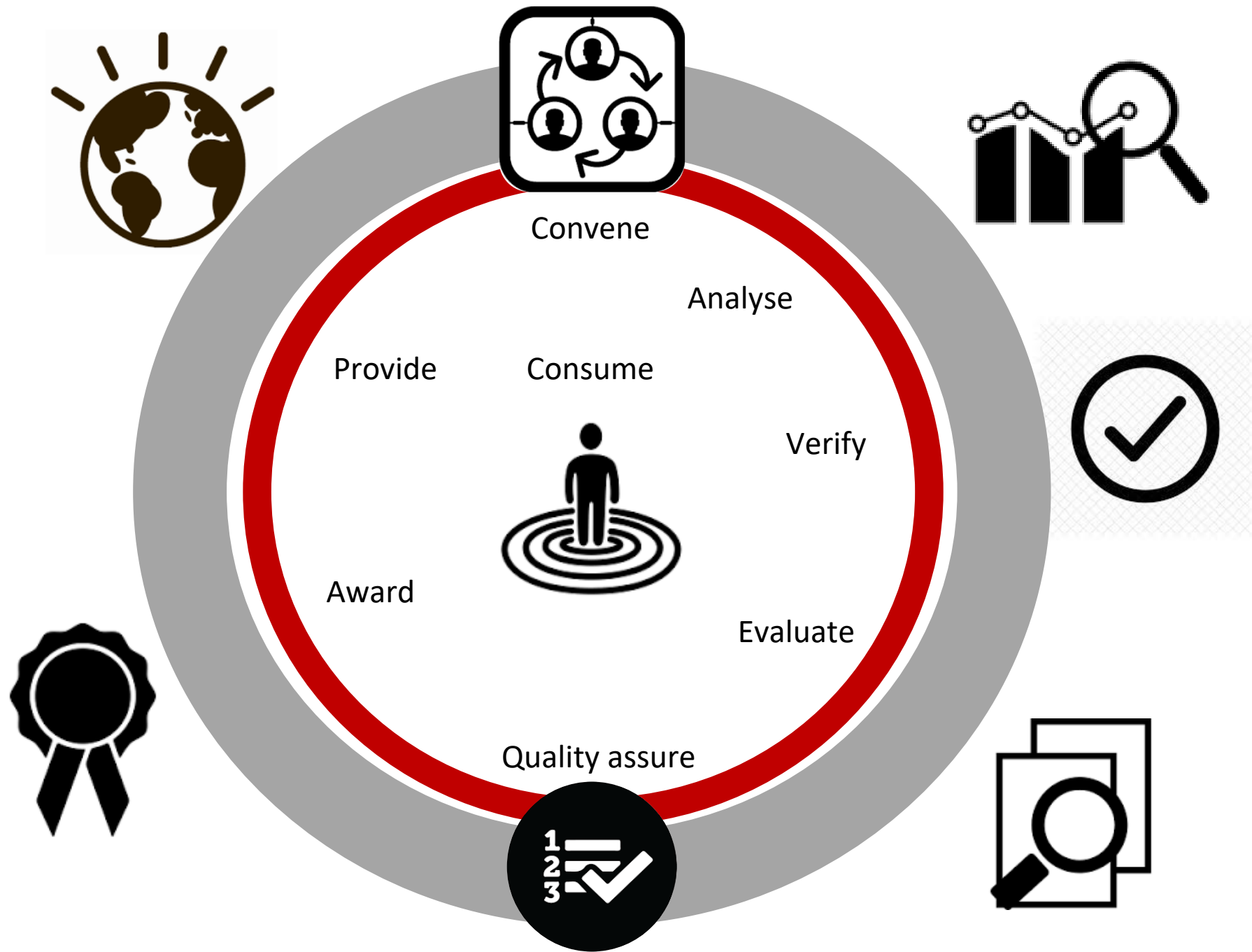
Ben receives the  
money from Alice

# Growing number of blockchain initiatives around the world





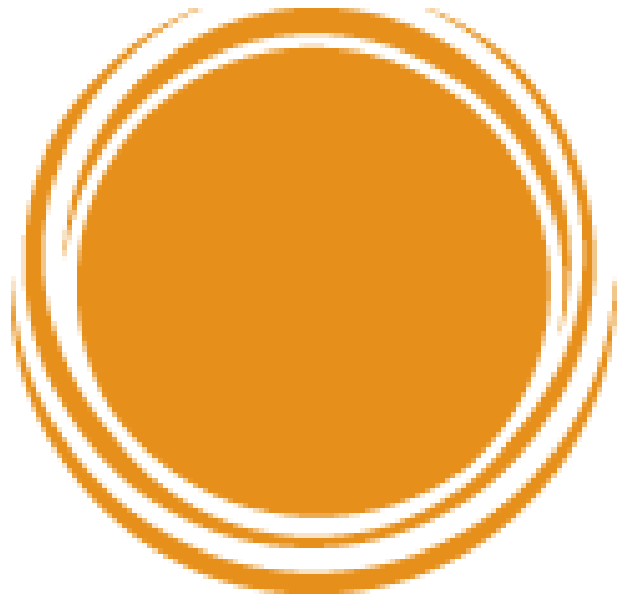
# Digital credential ecosystem





GRONINGEN  
DECLARATION





**Lumina**<sup>TM</sup>  
FOUNDATION

# Interoperability

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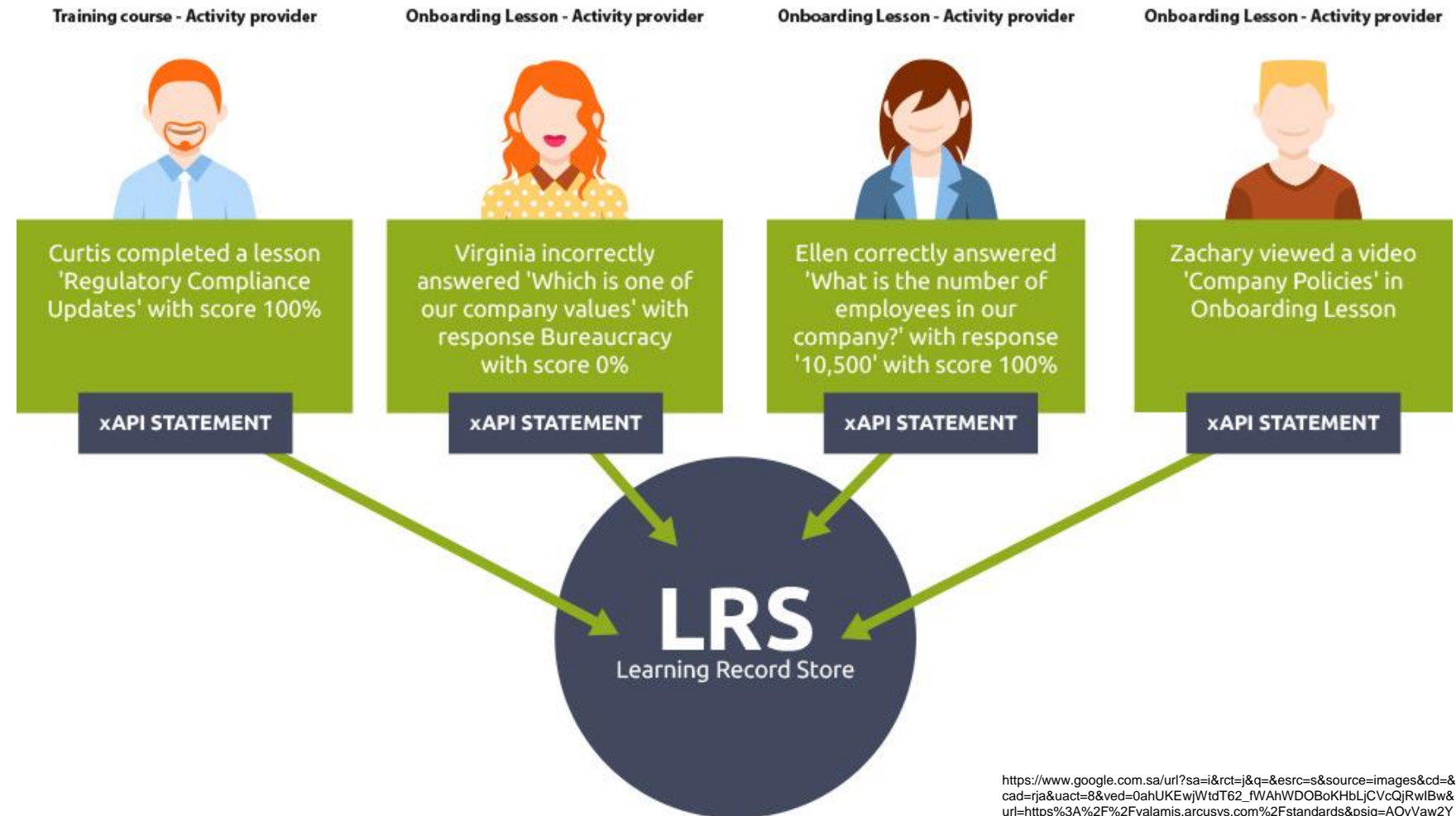
Interoperability imply exchanges between a range of products, or similar products from several different vendors, or even between past and future revisions of the same product. Interoperability may be developed post-facto, as a special measure between two products, while excluding the rest, by using open standards. When a vendor is forced to adapt its system to a dominant system that is not based on open standards, it is not interoperability but only compatibility.

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xAPI lets applications share data about human performance (broadly defined). More precisely, xAPI lets you capture (big) data on human performance, along with associated instructional content or performance context information (i.e., experience ). xAPI applies “activity streams” to tracking data and provides sub-APIs to access and store information about state and content. This enables nearly dynamic tracking of activities from any platform or software system—from traditional Learning Management Systems to mobile devices, simulations, wearables, physical beacons, and more.

<https://www.adlnet.gov/xapi/>



[https://www.google.com.sa/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjWtdT62\\_fWAhWDOBoKHbLjCVcQjRwlBw&url=https%3A%2F%2Fvalamis.arcusys.com%2Fstandards&psig=AOvVaw2YLn0ePmnC\\_AhRxMye1RCT&ust=1508331792309795](https://www.google.com.sa/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjWtdT62_fWAhWDOBoKHbLjCVcQjRwlBw&url=https%3A%2F%2Fvalamis.arcusys.com%2Fstandards&psig=AOvVaw2YLn0ePmnC_AhRxMye1RCT&ust=1508331792309795)

# Recognition in a digitized world

## Current approaches

- Formal, non-formal and informal divide
- Central role of NQFs, with emerging regional QFs
- RPL works, but is costly and slow
- Strong role of national recognition authorities
- Use of learning outcomes

## Where we are heading

- The divide becomes much more blurred
- RQFs and world reference levels gain ascendancy
- Digital credentials become more mainstream
- Blockchain and privacy measures
- Representation is more important than formal credits
- International sectoral qualifications
- Use of xAPIs





**Humanlike robots**

**“Representation”**  
Anything that cannot be digitized or automated will become extremely valuable


Closing the skills gap using digital credentials ( & xAPI & Blockchain)

Traditional “macro-credentials”, qualifications, NQFs, RQFs, credits, learning outcomes

Performing menial tasks, replacing humans

Rise of AI, machine learning and robotics





In the end, it all comes down to people and values. We need to shape a future that works for all of us by putting people first and empowering them. In its most pessimistic, dehumanized form, the Fourth Industrial Revolution may indeed have the potential to “robotize” humanity and thus to deprive us of our heart and soul. But as a complement to the best parts of human nature—creativity, empathy, stewardship—it can also lift humanity into a new collective and moral consciousness based on a shared sense of destiny. It is incumbent on us all to make sure the latter prevails.

Klaus Schwab, 2016



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