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Virtual reality for employability skills

Conference or Workshop Item

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oro.open.ac.uk

Virtual Reality for Employability Skills

Shailey Minocha and Ana-Despina Tudor
20 July 2017
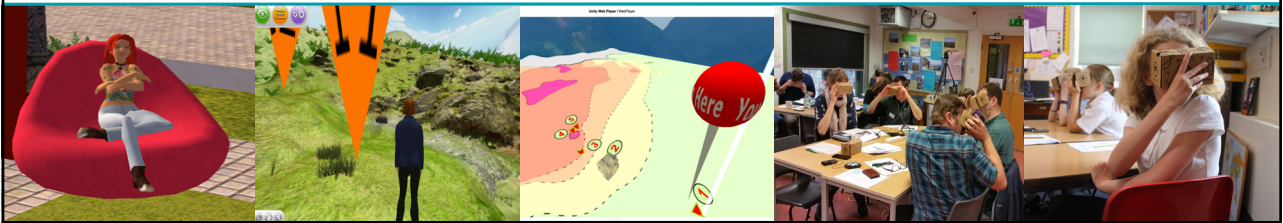
3D virtual environments and virtual reality

Second
Life

Virtual Skiddaw:
3D geology field
trips (Unity 3D)

360-degree
videos in the
browser

Virtual reality
viewers

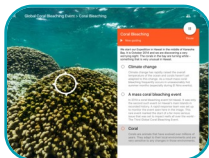Mobility

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Affordances

360-degree visual authenticity

360-degree navigation

3D view

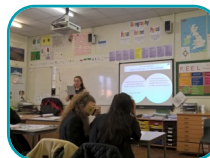Emphasis
and
In-situ contextual information

First-person perspective

Simulation

Single-user handling

Synthesis

Visualisation

5

3D virtual geology field trip – Virtual Skiddaw

Site 1
Blease Fell Quarry
Task list

☐ Sketch of overall exposure

☐ Describe hand specimen of rock in your notebook

☐ Describe microscopic aspects of rock in your notebook

☐ Check the regional context of the site using the overlays

☐ Relate observations to past geological processes

Show sketch points
Highlight rock
Open phase diagram

3D virtual geology field trip, video: https://www.youtube.com/watch?v=zfbA1s9uRoU

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Other types of virtual reality

VR in health care

VR's Healthcare Revolution: Transforming Medical Training at CHLA

Video:
https://www.youtube.com/watch?v=4om8g0u9a4M

360 degrees video in Chrome

Ocean: A 360-degree tour of the mysterious, magical corals of Palau

Video:
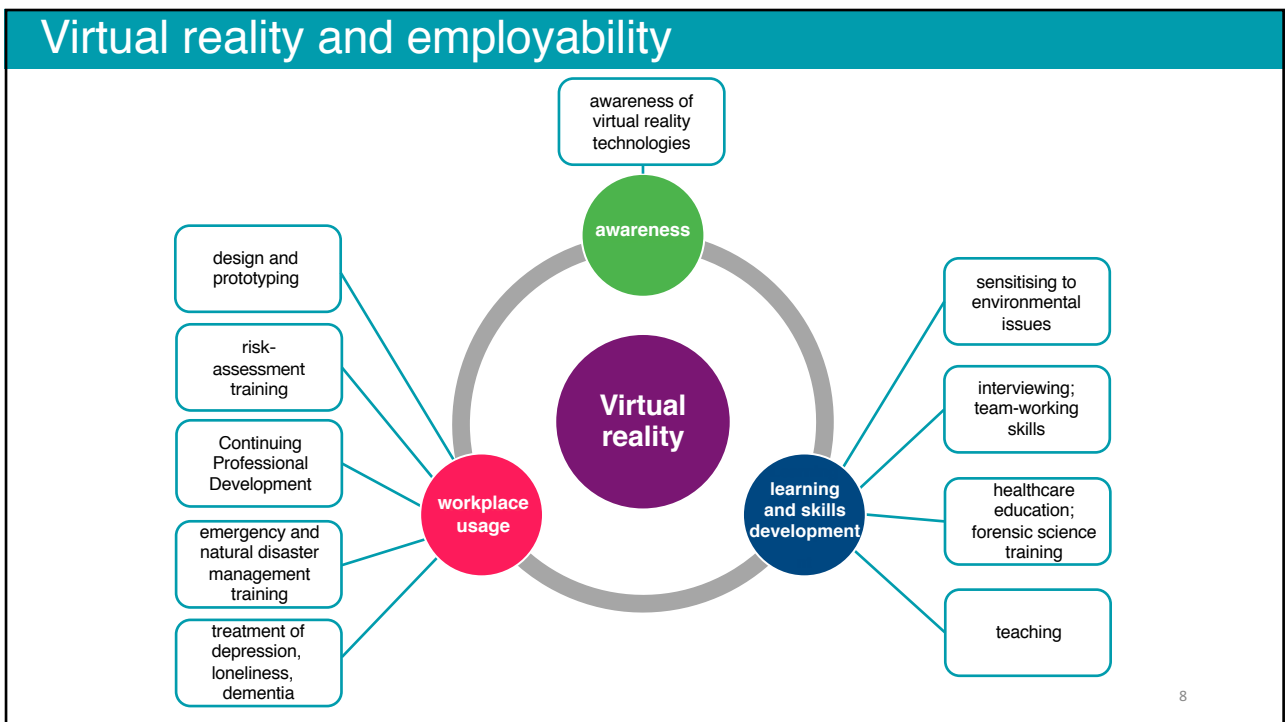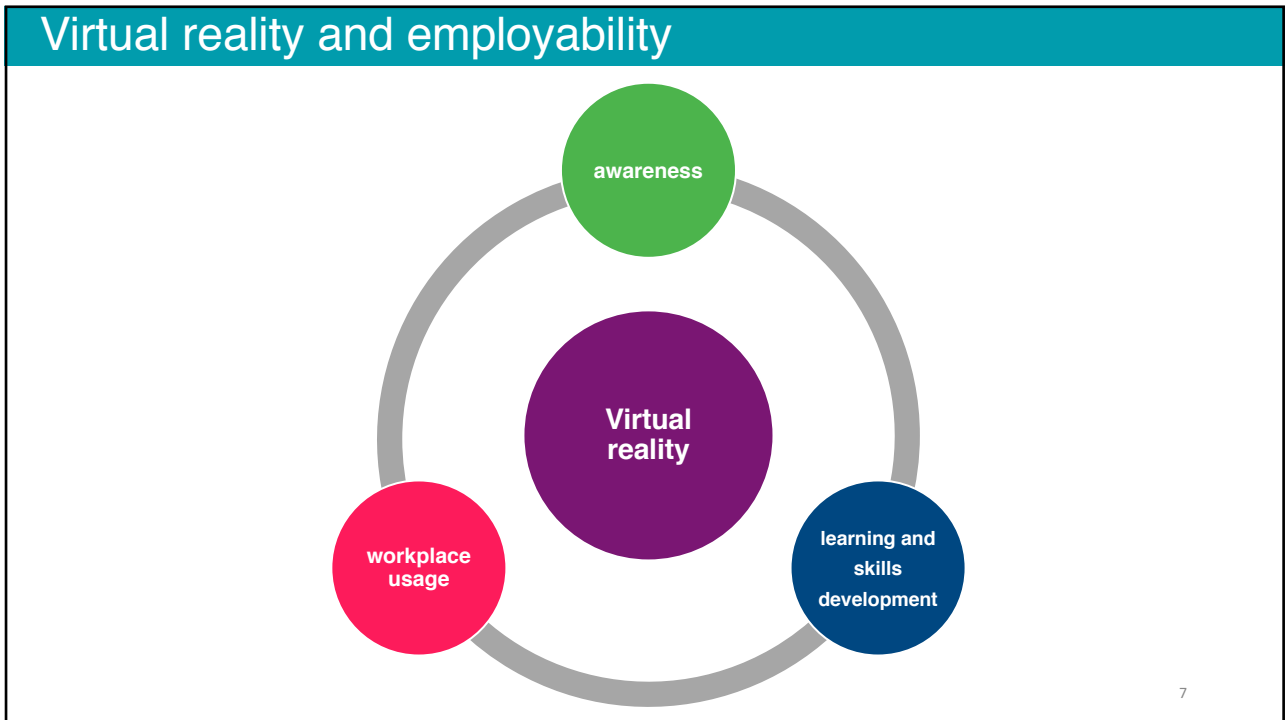https://www.youtube.com/watch?v=jvtvFHPRcsY

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Employability

" A set of capabilities and achievements that support students in developing their careers, raising their aspirations and enhancing their contribution to society. "
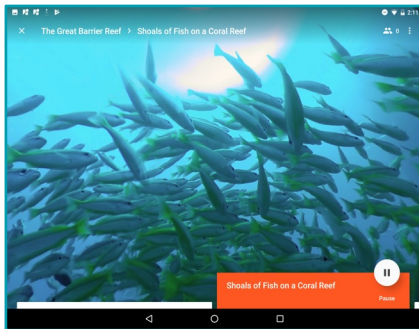
The Open University Student Employability Policy Statement

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Virtual reality and employability

Virtual reality and employability
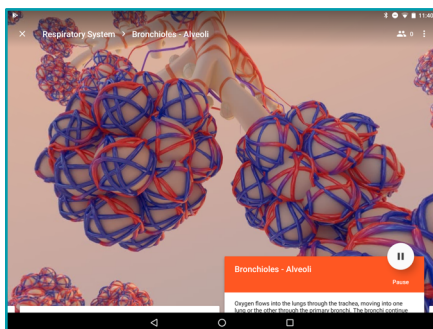
Experiencing the invisible

Real places

" The virtual reality helped me
because I could see
for myself what was happening
without having to imagine it. "

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Learning through simulations

Simulations

" The animation was very realistic;
therefore, I could take more
knowledge away from the lesson
[...] these images can [...] help me
explain about the respiratory
system in a much larger amount
of detail. "

10

Local to global – and – global to local

Local to global

Global to local

" It helped me to understand the Chilterns is an area of natural beauty compared to some places in the world It helped me to feel more caring about the Chilterns. "

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The future

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Questions and comments

Project website:
http://www.shaileyminocha.info/google-expeditions/; has links to blog-posts

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The links to websites in this presentation were last checked on 19 July 2017.

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