

THETA

Transformative Hospitality Education
through Tech Abilities:

*A blueprint for creating immersive (learning) experiences
using VR/AR*

Co-funded by the
Erasmus+ Programme
of the European Union



LTTA HELSINKI

November 27th-29th



Learning outcomes

- ▶ Be able to plan and create a prototype (within WarpVR, Fectar & Matterport) as a team using the design-thinking template and necessary equipment (hardware and software)
- ▶ Understand the benefits and drawbacks of each medium understand how to think through the design of an immersive learning experience
- ▶ Learn how to develop rapid AR/VR prototypes for hospitality education (?) in a quick and dirty way
- ▶ Gain an overview of how to go about integrating AR/VR prototypes in your courses

Practical questions

- ▶ Wi-Fi – HaagaHeliaPublic – No password
- ▶ Moving around in campus
- ▶ Workshop hours

Helsinki event schedule

▶ DAY 1 (Mon 27.11.2023)

- 9 - 10 XR opportunities in education - Jouko
- 10 - 12 Army of examples - participants present their pre-assignments
- 12 - 13 Lunch
- 13 - 14 Experience session: Presentation of four prototypes - Che
- 14 - 17 Prototype Workshop - Fectar in detail - Che

DAY 2 (Tue 28.11.2023)

- 9 - 12 Prototype Workshop - WarpVR in detail - Daniel
- 12 - 13 Lunch
- 13 - 15:30 Prototype Workshop - Matterport in detail - David
- 15:30 - 16 Pasi

▶ DAY 3 (Wed 29.11.2023)

- 9 - 12 Polish one of your prototypes workshop - Che, Daniel, David & Jouko
- 12 - 13 Lunch
- 13 - 14 Presentation of participants' prototypes
- 14 - 15 What happens after Helsinki. 7 credit course details.

	Sun Nov 26th	Monday Nov 27 th	Tuesday Nov 28 th	Wednesday 29 th
		Haaga-Helia, Campus	Haaga-Helia Campus	Haaga-Helia Campus
Morning 9-12		9:00 XR opportunities in education – Jouko, Room Osaamo 10:00 Army of examples - participants present their pre-assignments	9:00 Prototype Workshop - WarpVR in detail - Daniel, Room Osaamo	9:00 Polish one of your prototypes workshop Che, Daniel, David & Jouko, Classroom G-aisle
Lunch 12-13		Caffeli or Central Park, Hotel Haaga	Caffeli or Central Park, Hotel Haaga	Caffeli or Central Park, Hotel Haaga
Afternoon 13 ->		13:00 Experience session: Presentation of four prototypes – Che Room Osaamo 14:00-17:00 Prototype Workshop - Fectar in detail - Che	13:00-16:00 Prototype Workshop - Matterport in detail – David Room Osaamo 15:30 Pasi Tuominen thesis Room Noschis 3rd Floor	13:00 Presentation of participants' prototypes, Classroom G-aisle 14:00-15:00 What happens after Helsinki, 7 credit course details
Dinner		Outside	Central Park, Hotel Haaga or outside	(Central Park, Hotel Haaga or outside)
Other	Arrival of participants	Visit to Oodi Central Library		Departure of participants

Haaga-Helia in videos Campuses and Labs

<https://www.youtube.com/watch?v=eF6VP2kr3xg&list=PLv2-rjpkcTb7qil2wAnhswCHmWSc-yxuC>

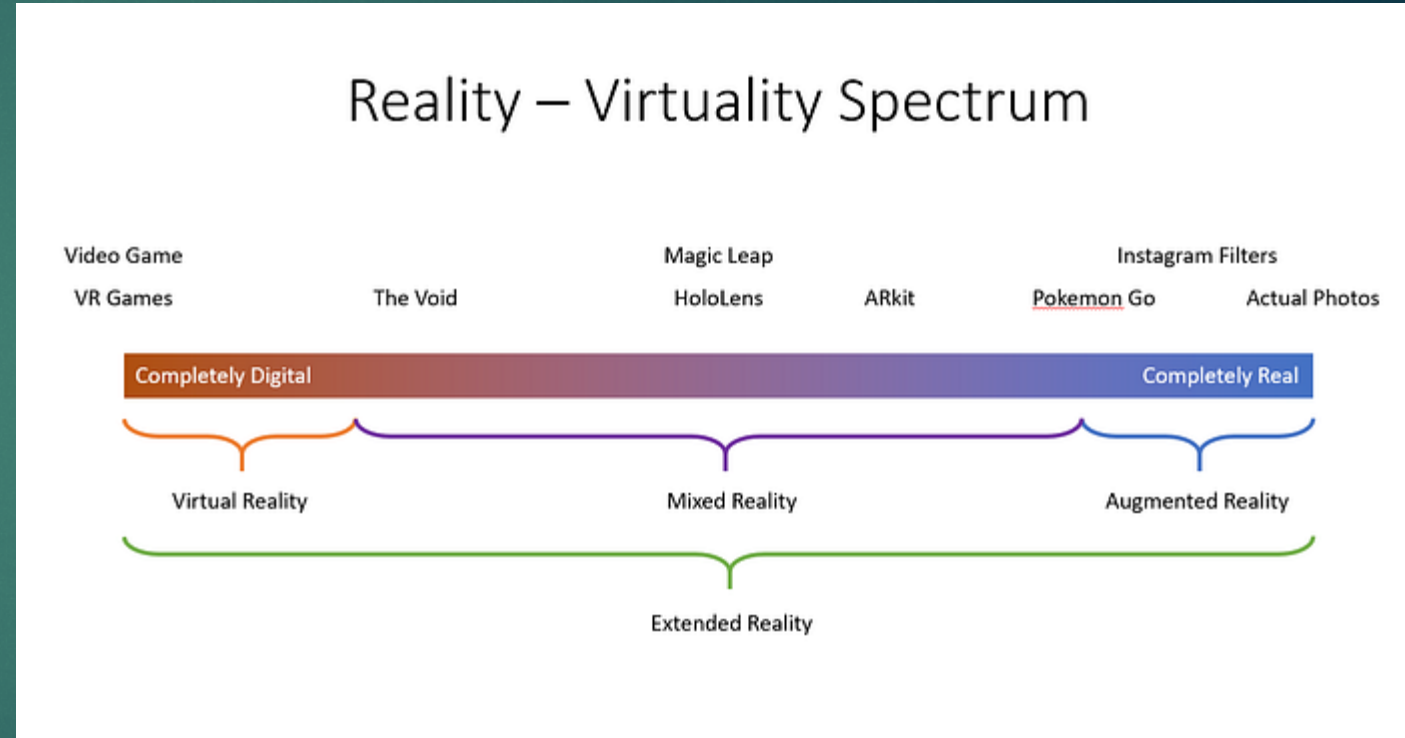
[Tutki, kehitä ja opi innovatiivisissa HH-labeissa](#) | [Explore, develop and learn in innovative HH Labs - YouTube](#)

Student presentations

- ▶ An army of examples how to use XR in teaching.

XR Overview

- ▶ Extended Reality (XR) is an umbrella term that encompasses a spectrum of immersive technologies, including Augmented Reality (AR), Virtual Reality (VR), and Mixed Reality (MR).
- ▶ These technologies blend the physical and digital worlds, creating interactive and immersive experiences.



<https://medium.com/@dmsteele89/the-present-state-of-the-virtuality-reality-continuum-96ed4e94d32e>

Virtual Reality (VR) Examples

- ▶ Virtual field trips
- ▶ Anatomy and medical training
- ▶ Historical reconstructions
- ▶ Soft skill training

Augmented Reality (AR) Examples

- ▶ Interactive text books
- ▶ Geography and maps
- ▶ Historical augmentation

XR Applications in Education

- ▶ Enhanced Learning Experiences
- ▶ Engagement and Motivation
- ▶ Accessibility and Inclusivity
- ▶ Global Collaboration
- ▶ Practical Training and Skill Development
- ▶ Real-world Application

Empowering teachers to create their own XR materials

- ▶ Customization for curriculum alignment
- ▶ Engagement and relevance
- ▶ Subject-specific content
- ▶ Promoting creativity and innovation
- ▶ Incorporation of real-world context
- ▶ Continuous improvement

Challenges and considerations

- ▶ Technical skill requirements
- ▶ Time-consuming process
- ▶ Resource constraints
- ▶ Lack of standardization
- ▶ Accessibility issues
- ▶ Integration with curriculum

Future Trends in XR and Education

- ▶ 5G Technology
- ▶ Immersive learning platforms
- ▶ Haptic feedback and sensory integration
- ▶ AI and machine learning integration
- ▶ Spatial computing
- ▶ WebXR
- ▶ Extended Collaboration Tools
- ▶ Eye-Tracking Technology
- ▶ AR Cloud
- ▶ Gesture recognition



Welcome, tervetuloa!