

EDEN E1-#63

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Project Demonstration



- Project financed by Eramus+
- Construction Safety Education and Training using Immersive Reality
- > 4 universities and one construction company
- > 3 years
- > Half million Euros
- ISHCCO, AECEF, ENETOSH and others invited to validate and tune up

Characteristics

- Construction tasks addressed at any time
- Risks associated from planning and statistics
- Visualization of environment
- Static, dynamic or interactive participation
- Learning/training
- Generic in terms of users



Examples (1)

- 1. OSHA PIXO safety compliance Virtual Reality
- 2. Fulmax
- 3. <u>VR Safety Training for Construction companies</u> (LandMarkVR)
- 4. <u>DOKA</u>



Virtualise Your Project BIM Data



www.fulmax.co.uk

Examples (2)



5. CERTIFYME.NET

6. SRI International Augmented Reality Solutions for Construction Inspection

7. CAT VR Training

8. 3M Releases Construction Safety Virtual Reality Programs for Hands-on Learning



Benefits?



- Simulation as training and education facilitator
- Possible use in certification
- Adjusted to each situation
- Standardising of training possible
- Adjustable to existing budget
- Use on site or on training facility
- Possibilities are immense

Two questions!



A) Relevant risks for training?

- Fall from height, equipment operation, excavation, confined spaces, scaffolding, dangerous products, electrical dangers, Covid19, ...

B) Training for whom?

- Coordinators, engineers, workers, foreman, supervisors, subcontractors, ...



Construction Safety with Education and Training using Immersive Reality

Thank you for your attention.

http://csetir.civil.auth.gr/