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Role of three-dimensional virtual environments in the globalisation of science education

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Role of three-dimensional virtual environments in the globalisation of Science education

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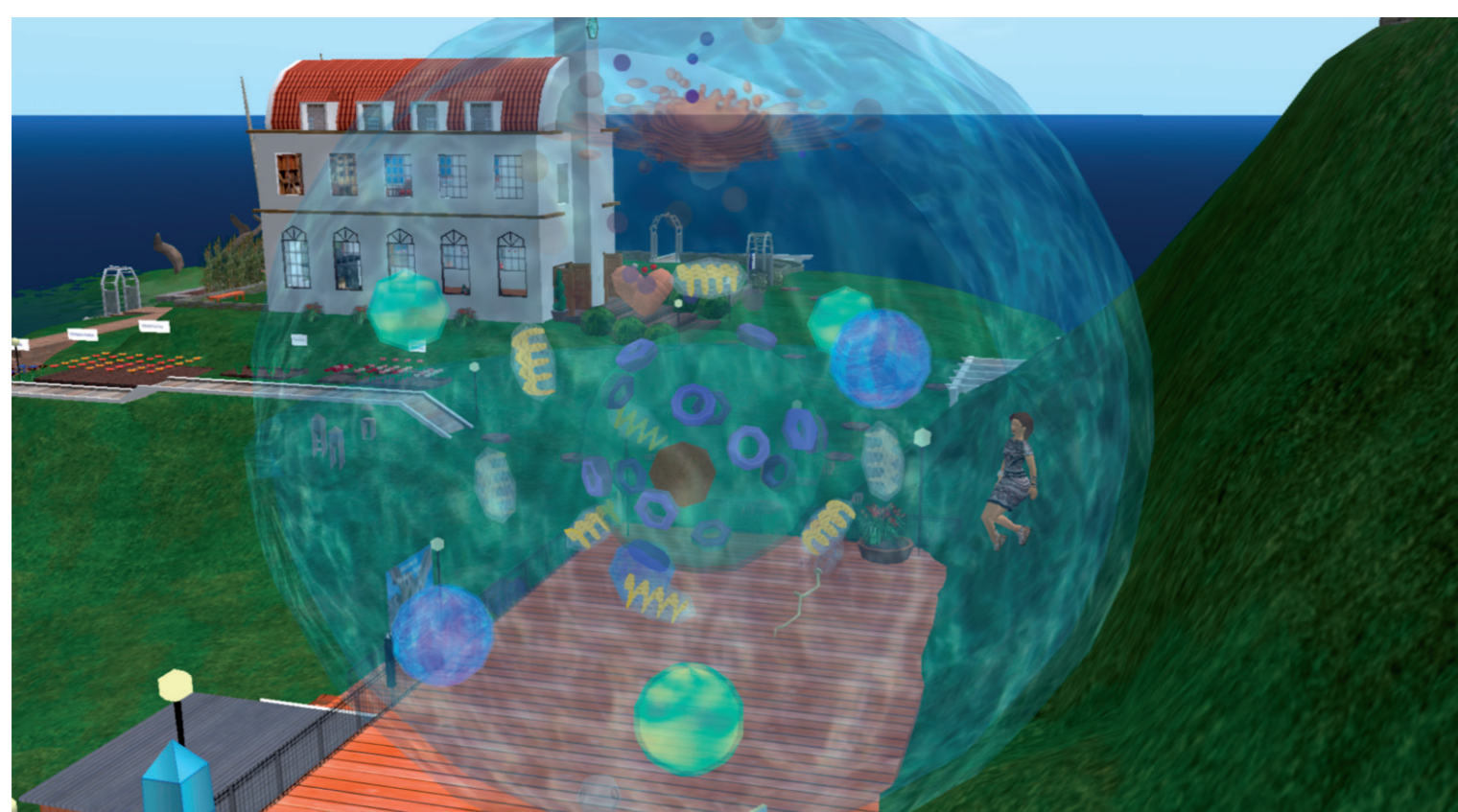
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3D virtual environments



- sense of shared space
- sense of presence
- formal and informal learning

3D simulations



- interactive simulations (e.g. animal cell, brain, etc.)
- a sense of immersion

Learn by interacting with



- 3D exhibits of real-life scenarios
- multimedia resources (e.g. websites, videos)
- learning activities designed around individual goals

Virtual experiments



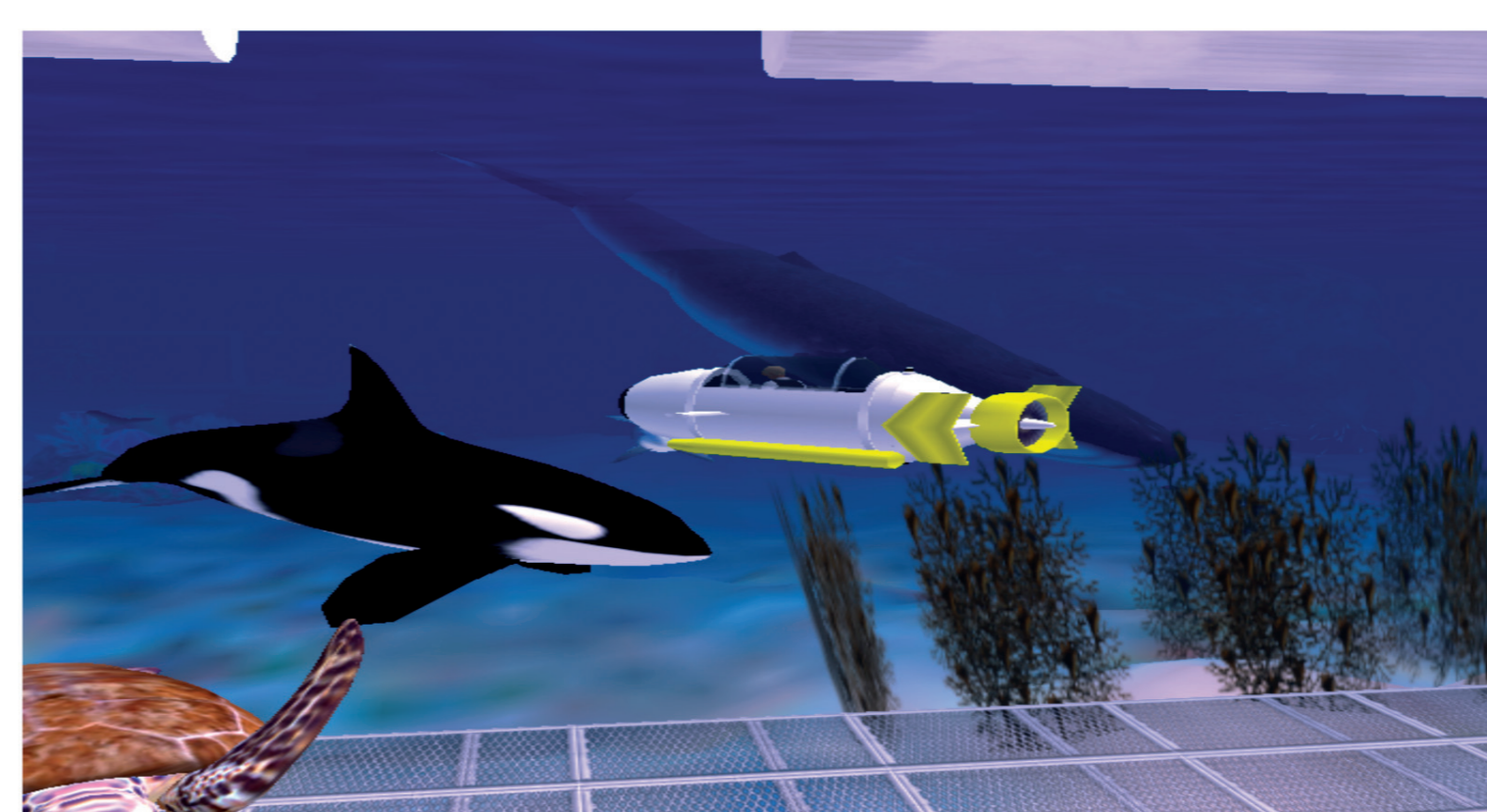
- experiments performed individually or in teams
- collect and analyse data
- networking with international experts

Learn through



- practising real-life scenarios before carrying them out
- by getting acquainted with the environment and the equipment

Explore situations



- by experiencing them in a virtual environment which may not be feasible in real life (e.g. underwater marine life; the solar system; an eclipse)

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