UNREAL GEOSPATIAL
Rise of the Game Engine

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BSc (Hons) Geography, MSc International Development, MSc Geographic Information Science
What are Game Engines?

Physics Engines.

Animation Systems.

Audio Processing.
The Evolution of Gaming

Improving Technologies.
Our Demand For Realism.
(Geo)Data Availability.
ENTER THE REAL WORLD

The Benefits of Going Geospatial

Large-Scale Game Worlds.
Immersive Experiences.
Widening Applications.
EDUCATION
A New Era For Storytelling

Human Histories.

World Geography.

Real-World Phenomena.
Digital Twins
For Development & Planning

Digital Real
World Models.

Virtual(ly Endless)
Simulations.

Visual Impacts
& Demonstration.
CONSERVATION & HERITAGE
Protecting A (Virtual) Past

Documenting Landscapes.
Conserving Cultures.
Raising Awareness.
UNREAL ARCHAEOLOGY
The Isles of Canna & Sanday

UAS-Based Survey (2018).
Digitised Isles’ Archaeology.
Unreal Engine 5.2 Plugins & Features.
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“Everything is related to everything else, but near things are more related than distant things.”

1st Law of Geography by Sir Waldo Tobler (1930-2018)