







Immersive Visualization Metaverse for EO Applications

Demonstrate the potential of Extended Reality, Immersive Visualization and Metaverse for EO Uses Cases

S. Fratini, 3rd Destination Earth User eXchange, Darmstadt, 15-16 October 2024

Overview

- Demonstrate the potential of extended reality, immersive visualization and metaverse for EO uses cases
- Develop Digital twin environment
- Foster Enhanced interactions and simulations
- Exploit Key techniques of VR/AR and XAI/GenAI
- Demonstrate how DT can serve Policy and Decision Makers



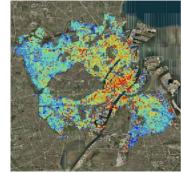


Scenario









- Climate change is leading to an increase in heavy precipitations, sea level rise and storm surges.
- Land cover change leads to substitution of natural areas with urban areas, changing soil permeability and infiltration.

In Denmark:

- By 2100 the intensity of 10-year rain events is expected to increase by around 30% while 100-year rain events by approximately 40%.
- By 2100 the frequency of 1-50 year one-hour rain events are projected to occur every 10 years.
- By 2100 winter precipitation will increase up to 55% while summer precipitation will decrease up to 40%, with more intense rain events





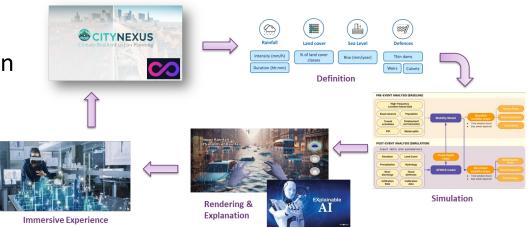
Visu4EO

Advanced support for policy and decision makers

Climate Change Adaptation

"Wow Factor"

➤ AI/GenAI/XAI/AR/VR





Thank You



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