

UNIVERSITY OF THESSALY  
School of Engineering - Department of Civil Engineering

Series of Scientific Lectures  
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The SIM4NEXUS Serious Game

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Wednesday 12/01/2022, Time:11:00

Webinar: [Microsoft Teams](#)

Live Streaming: [DIAVLOS](#), [YouTube](#)

**Abstract:** A Serious Game (<http://seriousgame.sim4nexus.eu/>), produced by the Eu-funded Horizon 2020 SIM4NEXUS project, will be presented. The Serious game is a computer game that aids learning about the Nexus by helping users to understand and explore the interactions between water, energy, land and food resources management under a climate change context, divides the problem into manageable interventions, and allows participants to learn by doing. It is built upon system dynamics models with a sound scientific basis. The ultimate goal of game development is to create a fun and interactive capacity-building tool to be used in research, educational settings and management. The Serious Game enables players to implement policies in a gameplay environment and explore how policies impact on different Nexus components. Summary information is given about policy actions, assigned costs and potential benefits; this facilitates scorekeeping according to both financial and social capital metrics. Costs are tallied against benefits, which are revealed as gameplay progresses. This allows a player to measure progress and compare to others. The Serious game includes a strategy map that facilitates comparison of policy impacts in different regions, a virtual card table in which policy cards can be applied through a drag-and-drop interface, and a visualization system that shows the impacts of users' decisions on the model.



The workshop will be conducted virtually. Interactive audience engagement platforms will be applied seeking the active involvement of the participants.