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VIRTUAL FOREST 2.0

by Lapland UAS

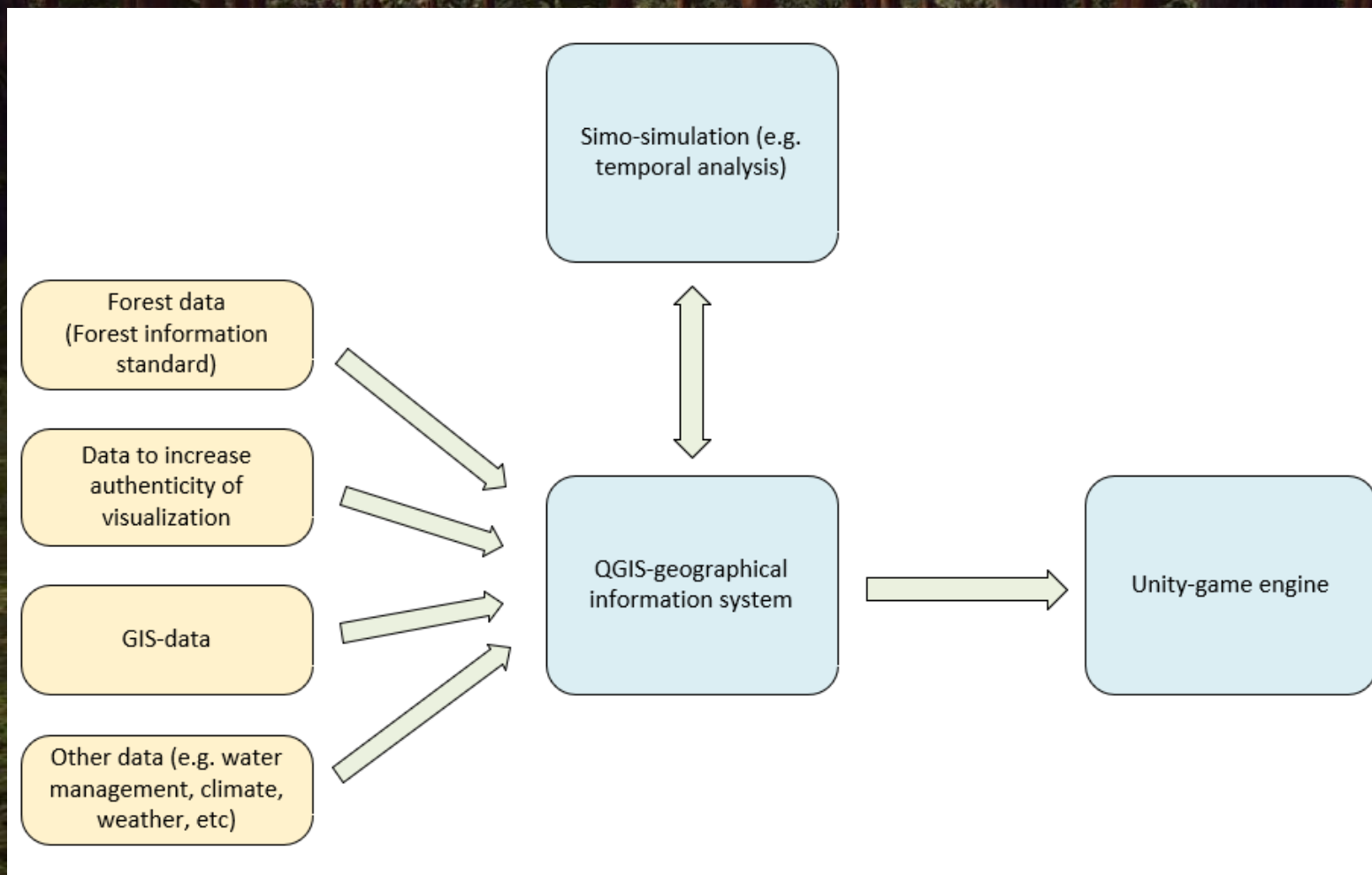
Virtual Forest 2.0

- Virtual forest has been developed to enable effective and user friendly 3D visualization of forest and geographic data
- The main idea of the solution is to enable the possibility to demonstrate and evaluate the effects of forest management
 - Virtual forest can be used for supporting decision making processes in different use cases
- In Northern Finland many user groups utilize forests in their activities so different needs have to be taken into account by participating different user groups into the decision making processes
 - Forestry
 - Reindeer husbandry
 - Tourism, etc
- Virtual forest has been developed by Lapland University of Applied Sciences



Virtual forest, architecture

- Virtual forest is based on real forest and geographic information data



Virtual forest, current features

- Visualization is based on geographic information and forest data
 - Ground models are used for enabling visualization of real ground elevation
 - Ground vegetation is generated according to the forest type
 - Trees are generated according to the tree data
- Buildings can be added to the visualization
- Rocks, waterbodies, roads, etc can be visualized
- Possibility to move in the air or on the ground

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Virtual forest, current features

- Different forest management operations can be executed
 - User friendly way to visualize operations
- User can delineate retention zones and retention tree groups





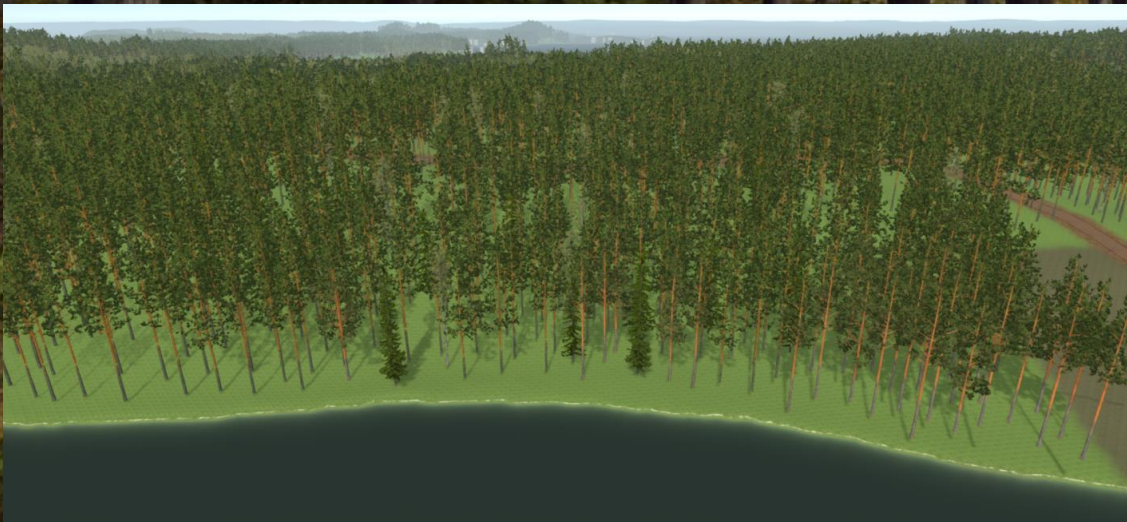
Virtual forest, use cases

- Example use cases for the solution:
 - Landscape planning
 - Participatory planning (e.g. cities or other public entities)
 - Communication (also in remote connections)
 - Forestry
 - Counselling of forest owners
 - Forest planning
 - Logging
 - Forest management



Example of a visualization of a logging plan

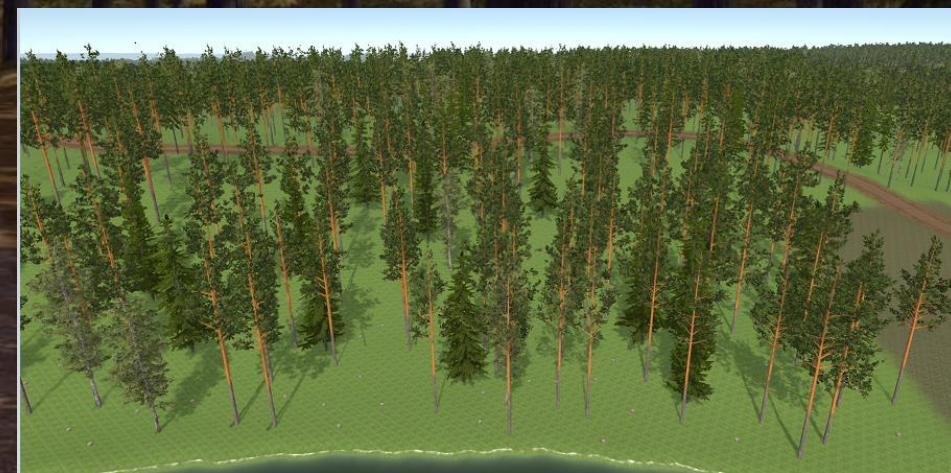
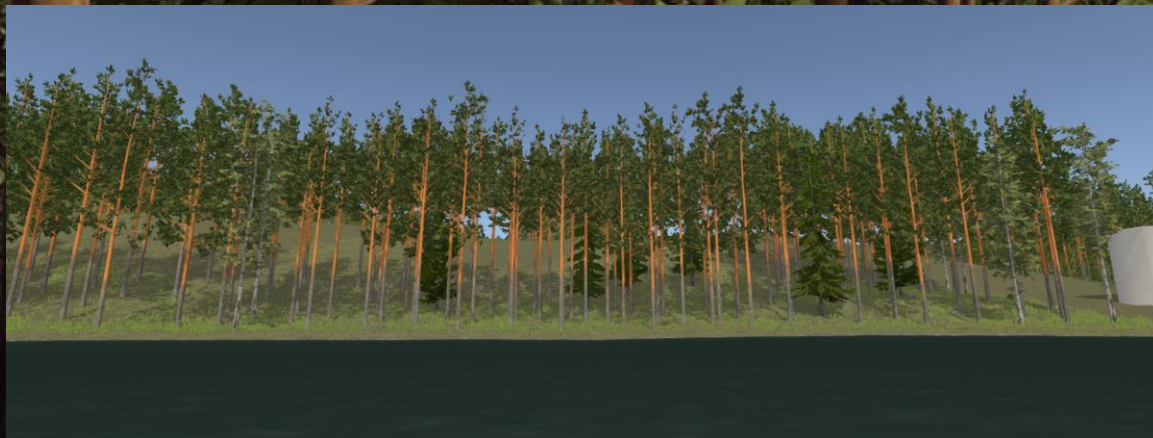
- Logging of a stand next to a lake
 - Land owner wanted to have a retention zone around his cabin and the sceneries taken into account while deciding the logging operation
- Lower left corner: starting situation





Visualization of a logging plan

- Virtual Forest can visualize the visual effects of the logging in 3D
 - Top left picture: View from the lake
 - Bottom left picture: View from the lake in bird perspective
 - Bottom right picture: View from the lake in bird perspective without clear cutting



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Thank you

For more information, [click here!](#)

Contact

Markus Korhonen: markus.korhonen@lapinamk.fi