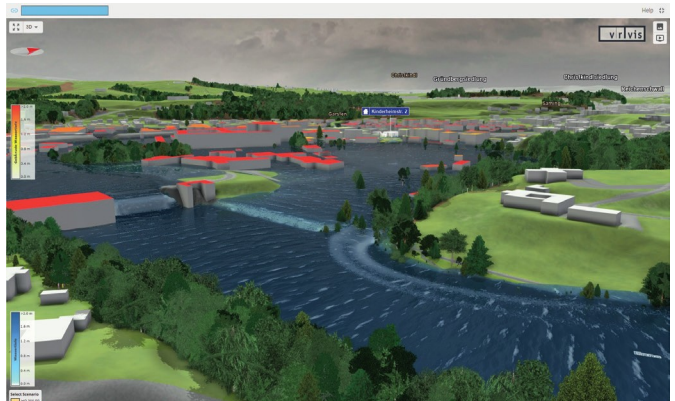


# Viscloud

The software tool for simulation, visualization and analysis of floods and heavy rain.

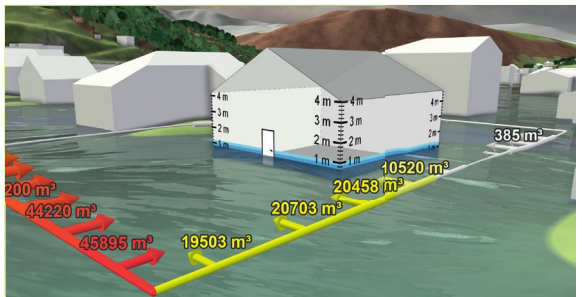
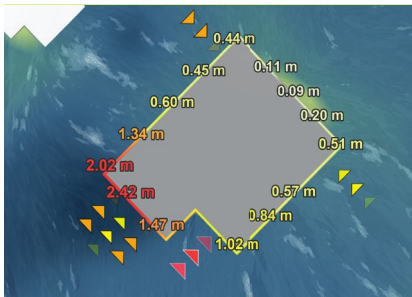


zentrum für  
virtual reality und visualisierung  
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## Heavy rain and flood simulation as a service

viscloud is a software tool that combines hydrodynamic modeling with fast flood simulation and high-resolution 3D visualization and analysis in one tool. With unprecedented speed, viscloud simulates flooding events for extremely large areas, without loss of accuracy. With viscloud, we put visual computing expertise at the service of sustainability. viscloud makes intelligent flood protection and water-sensitive planning in the context of climate change adaptation possible. Interactive live planning of measures for Sponge Cities or blue-green infrastructure are also easy to implement with viscloud, as well as disaster management in case of emergency. Furthermore, viscloud is very much suitable for public information campaigns, raising awareness for hazards and dangers of floods and heavy rains.

For more than a decade, viscloud has been developed by VRVis and the Institute of Hydraulic Engineering and Water Resources Management at the Vienna University of Technology (Prof. Günter Blöschl): a successful example for a digitization solution from Austria.



viscloud is the basis of Hora 3D, the world's first personalized 3D flood risk visualization for an entire country: [www.hora.gv.at](http://www.hora.gv.at)  
On behalf of the Federal Ministry of Agriculture, Forestry, Regions and Water Management (BML) and the Association of Austrian Insurance Companies VVO, VRVis, in collaboration with the Vienna University of Technology, calculated detailed, Austria-wide flood risk maps that support raising public awareness for possible future floods. In a next step, VRVis also integrated the object-related visualizations to feature the hazards interactively, realistically and intuitively understandable.

## Strengths of viscloud

- ❑ **Fast simulation:** Without any loss of accuracy, live planning with viscloud revolutionizes the state of the art of planning processes
- ❑ **Integrated 3D visualization:** Important communication tool for both professionals and the general public
- ❑ **Browser access:** A simple link is all that is needed to give stakeholders and users access to a common simulation platform
- ❑ **Heterogeneous hydro modeling in a single setup:** for river floods, (heavy) rain, slope water, coast, sewer network, infiltration
- ❑ **Management of many different scenarios** for large regions or whole countries in a single project setup
- ❑ **Extensive portfolio** of measures that can be simulated
- ❑ **Perfect for public awareness campaigns**

## Awards for viscloud



## Selection of VRVis' partners and customers





## Contact

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### About viscloud

[www.vrvis.at/viscloud](http://www.vrvis.at/viscloud)

### Videos about viscloud

[www.youtube.com/vrvis](http://www.youtube.com/vrvis)

## About VRVis

VRVis is Austria's leading research institute in the field of visual computing, with locations in Vienna and Graz. As a COMET competence center, VRVis operates with around 70 researchers at the intersection of science and industry, strengthening companies in various fields through technological innovation from the areas of artificial intelligence, visual data analytics, XR, and simulation.

VRVis is funded by BMK, BMAW, State of Styria, SFG, Tyrol and Vienna Business Agency in the scope of COMET - Competence Centers for Excellent Technologies (879730) which is managed by FFG. VRVis is a Flagship Project 2030 of the city of Vienna.

