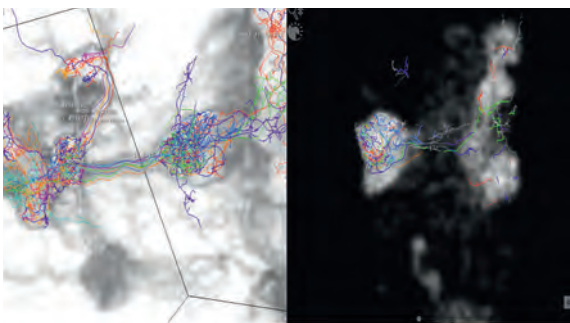


# YOUR PARTNER IN SCIENCE



v | r | vis

zentrum für  
virtual reality und visualisierung  
forschungs-gmbh

---

## Who we are

VRVis is Austria's leading and internationally recognized institution for applied research in the field of Visual Computing, situated in the most livable city in the world, Vienna. Our team, which comprises approx. 70 employees, is passionate about technology and research. As a COMET competence center, we pursue the goal of building bridges between science and industry.

Together with the TU Vienna, the TU Graz and the University of Vienna, VRVis forms one of the largest research clusters in Europe to focus on Visual Computing. As such it is an important player in strategic research initiatives run by the government and the city of Vienna.

## Topics and projects

Last year VRVis implemented over 60 R&D projects with more than 30 international company partners and 9 scientific institutions. We are proud to be a valued partner for cutting edge R&D.

### **Our research topics include:**

- ▣ Simulations & Interactive Visualization
- ▣ Machine Learning & Deep Learning
- ▣ Visualization of Complex Infrastructure Projects
- ▣ Geospatial Data Visualization
- ▣ Biomedical Image Informatics & Neuroscience
- ▣ Real-time Graphics
- ▣ Hydrodynamic Modelling
- ▣ VR & AR
- ▣ 3D & Tactile Technologies & Multimedia Solutions
- ▣ Visual Analytics & Data Science

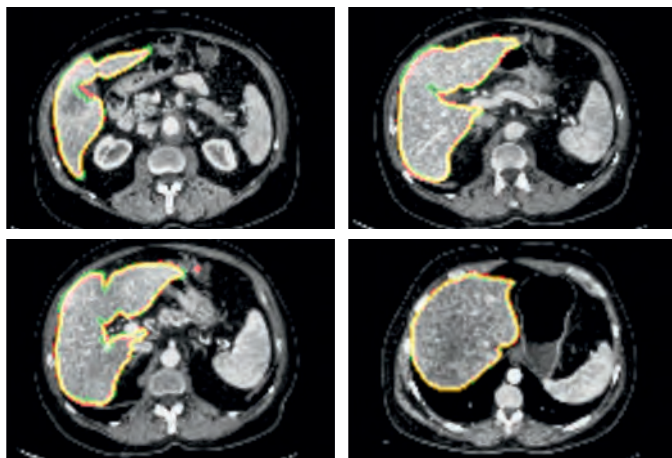
## What we offer as a scientific partner

- ❑ **Partner for project proposals:** Since we are an independent competence center and not part of any university, we are the ideal partner for many types of project proposals.
- ❑ **Industry contacts:** In 20 years we have worked with various local and international companies, within various markets and industries – our network is a great starting point for new projects and collaborations.
- ❑ **Joint publications:** The publication rate of our researchers and their participation at renowned conferences are very high. We are always open and interested to collaborate with new partners.
- ❑ **Research stay:** If your research focus is in the field of Visual Computing and you are interested in working and researching abroad for some time – our doors are open.
- ❑ **Invited talk:** You want to share your research results to Vienna's R&D community? We are happy to invite you to present your work in one of our lecture formats.
- ❑ **PhD:** As a research center, we cover everything from scientific to applied research as well as software development. We combine 8 research groups under one roof and offer many attractive topics for PhD students. If you're writing your PhD thesis – or planning to, we are very interested in hearing from you.

## What we offer as an employer

- ❑ Being part of an engaged team enthusiastic about R&D
- ❑ Embedded in a Visual Computing competence center that is known to be one of Austria's major driving forces of innovation
- ❑ A strong and extensive network to our partners in science and industry
- ❑ An exciting and diverse field of work
- ❑ Possibility of multidisciplinary collaborations
- ❑ An engaged science communication that shows the world your brilliant work
- ❑ A supportive and inclusive work environment
- ❑ Structures that promote professional development
- ❑ Flexible worktime hours

## Deep Learning for Tuberculosis Screening



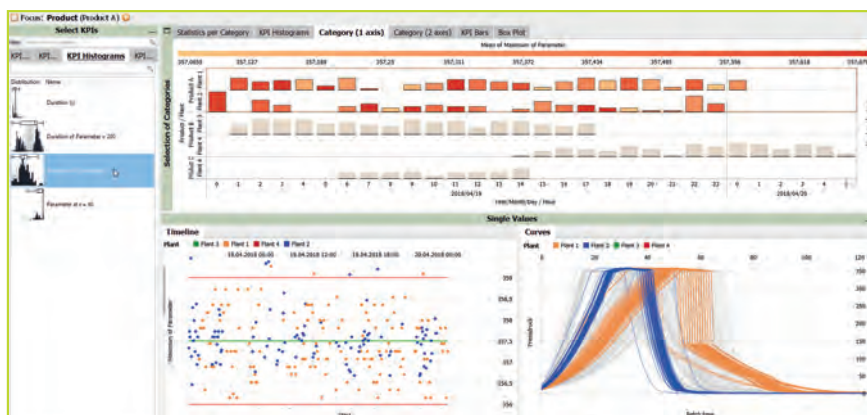
Deep sequential segmentation of organs in volumetric medical scans.

## Virtual Reality Simulation of Visual Impairment



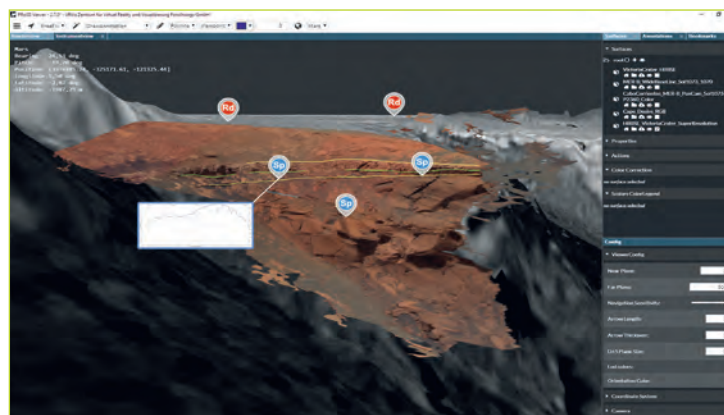
Various shots from the VR simulation of visual impairments.

## Visual Analytics of Industrial Process Data



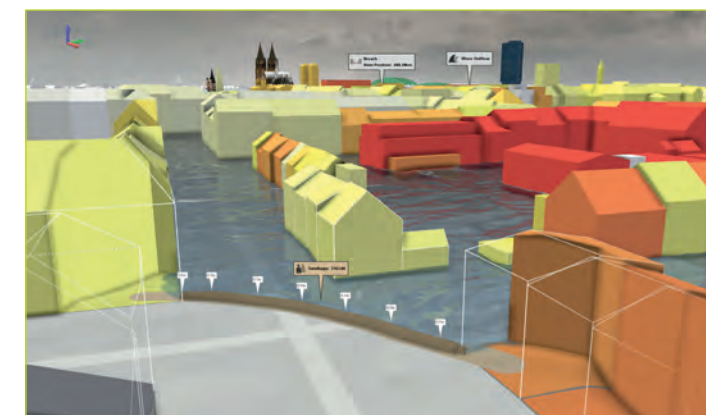
Application example: Comparison of two plants by quality metrics and process time series.

## 3D GIS for Mars



Pins show measurement positions of different instruments in the 3D reconstruction of Cape Desire at the Victoria Crater on Mars (spectra, radar data, geologic interpretation).

## Hydrodynamic Modelling: Combining simulation, visualization and analysis



Enabling the user to test different protection measures to mitigate the adverse effects of extreme weather events: here mobile sandbag barriers in an urban scenario.

## Vienna

- Most livable city in the world and, in the truest sense of the word in the heart of Europe
- Community: Over 45,000 people work in 1,554 R&D research sites, almost 200,000 students study and live in the biggest university city in the German-speaking region
- Austria, in general, is a future-oriented country: Over 2.8% of the Austrian GDP is devoted to R&D

VRVis Forschungs-GmbH is funded by BMVIT, BMDW, Styria, SFG and Vienna Business Agency in the scope of COMET – Competence Centers for Excellent Technologies (854174) which is managed by FFG.



Competence Centers for  
Excellent Technologies



## Contact information

VRVis Zentrum für Virtual Reality  
und Visualisierung Forschungs-GmbH  
(VRVis research center)

office@vrvis.at  
Donau-City-Straße 11  
1220 Vienna, Austria  
www.vrvis.at



zentrum für  
virtual reality und visualisierung  
forschungs-gmbh