Wolfgang von Zoubek, company Art Light & Design, is the representative for the entire Middle East for this product





Scheid & Partner communications and more

augmented reality application





















Competence in

- Augmented Reality (AR)
- Virtual Reality (VR)
- Mixed Reality (MR)



Realistic discovery of virtual worlds









Augmented Reality (AR)

This describes a computer assisted perception or rather a presentation which the real is extended extends with virtual aspects.

Real images of a presentation or an item are explained clearly and understandably.

You can see this information via a tablet, smartphone or with AR-glasses in future, which decrypts the appropriate marker and you can then interact with the object.

A simple movement of the mobile device is sufficient to plasticise the objects and to receive further information.

You can fully see and interact with technical data and therefore get a completely new dimension of perception and interaction.



AR thus becomes the new working and control medium.









Virtual Reality (VR)

Virtual Reality describes the presentation of a virtual and computer integrated world.

Virtual Reality simulates that one can see himself in this created world and can experience the different impressions of senses like sights, sounds and touches.

Nevertheless is Virtual Reality very close to the definition of immersion and therefore connected to VR-glasses.

The conventional use of computers will be replaced by using VR-glasses.

The glasses provide a realistic experience and the own body becomes the control unit in virtual reality.



By using VR-glasses like the Oculus Rift one dives into a virtual reality and doesn't only look on it like on a monitor. The feeling of being part of what is actually a fictitious world, merging, will only be possible with this latest technology.









Mixed Reality (MR)

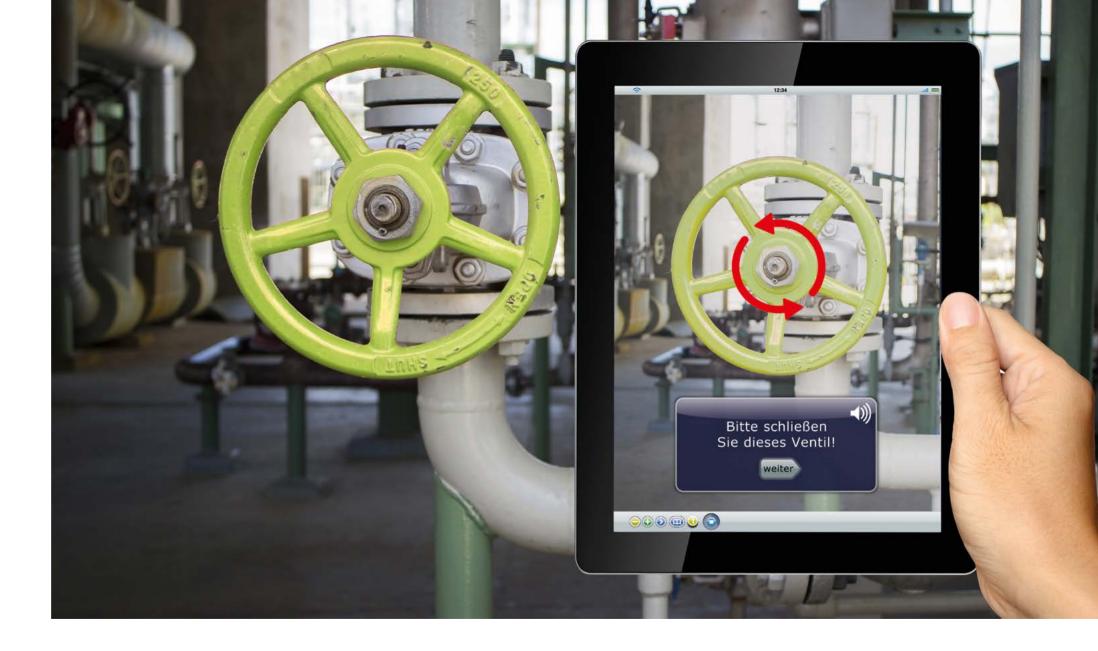
Mixed Reality describes a mix of extended and virtual reality.

This is the counterpart of Augmented Reality (AR).

AR is a virtual augmented reality, mixed reality is a reality by augmented virtuality.

Events in the real world release an occasion on the screen or VR-glasses.

An already available example of everyday life would be a change of route, which will be given by navigation, if there is a traffic disturbance like a traffic jam.











Why using AR/VR/MR?

The general idea is to use knowledge and data of the internet and other sources of the people, to connect this reality logically, respectively the direct surroundings and also to overlay it.

Now you have the possibility to interact with information and to use it.

Unimportant information will be deliberately omitted and only used for the content you need at the moment.

The possibilities are almost limitless - from an enhanced brand experience at an exhibition stand about new solutions for the logistics, up to warnings, when entering a danger zone in a factory, or a laboratory.











How to use AR/VR/MR?

The necessary technical basis for the use of Augmented Reality consists in Hardware such as Smartphone, Tablet or Smart Glasses and the AR/VR/MR application developed for such devices.

The software uses various intelligent methods for the detection of real objects based on real-time analysis of the camera image and other sensors.

Thus, it becomes possible to capture digital information with real objects, which opens up a wide range of new applications.







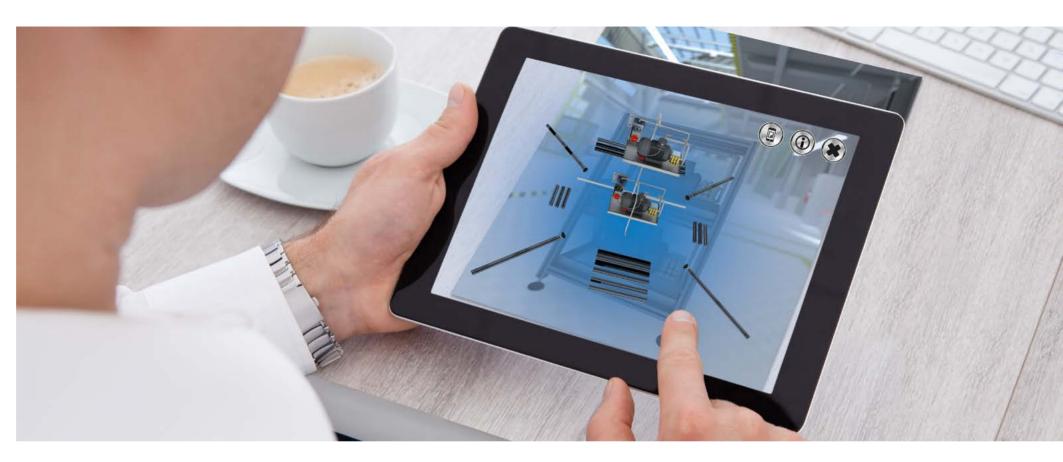




What is a marker?

The so-called marker is an object in reality, e.g. a picture in an advertisement, which is the basis for presentation of AR contents. The marker is connected with the correspondent AR matters and can be used by software like our apps, to be identified by the camera to represent these contents. The presentation is based on the marker in reality (tracking), which is done via sensors and enables a correspondending control.

Our apps allow to switch off the tracking to look on it independently. So you will be independent of the actual marker and the sensor-based controls which is then a typical touch-based control.











NEW DIGITAL HEATHCARE APPLICATIONS REALISED BY:

extended & augmented reality (XR/AR)



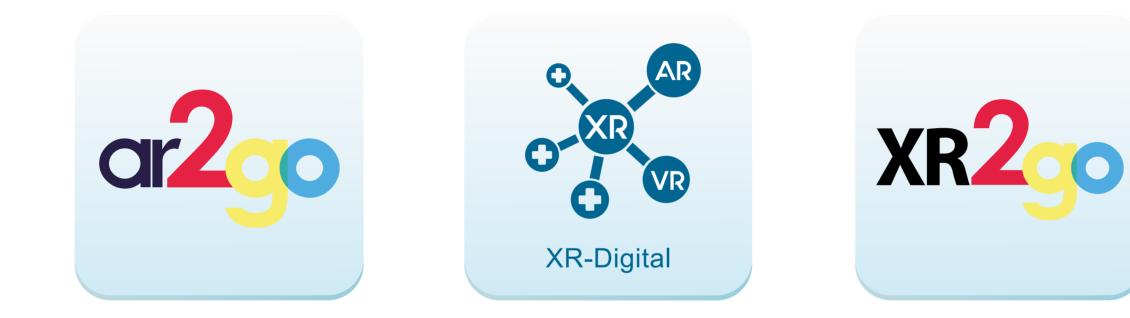


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One of the first known platform tools worldwide for the provision of Augmented Reality (AR) applications of all types and quantities, as well as their processing, scaling, mass data generation and cloud-based processing, scaling and provision of these data in DIGITAL MEDICINE.

With our platform software product you can execute, control, change, scale and evaluate these processes for the first time yourself as a doctor.

Here you will also find apprenticeship and further education as well as training in AR / VR for you, in medicine, on your own initiative, "state of the art" and according to the latest developments in science and digitization.





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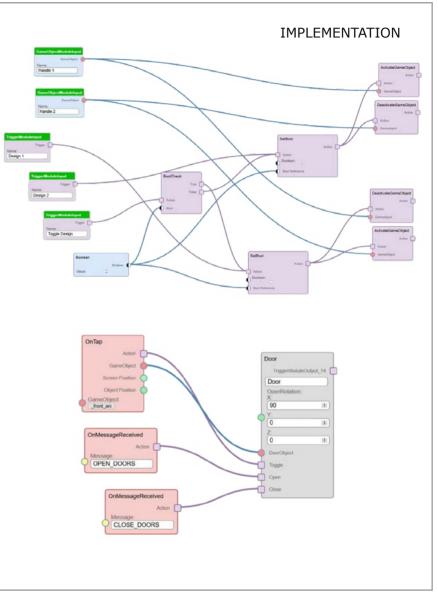














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How can we use AR/VR/XR?

- Engineering, architecture, engineering, 1 industry, etc.
- Navigation 2 (Visualization of the environment)
- Support for installers B (repair and installation)
- Support in medicine 4 (retrieval of data during surgery)
- 6 Support for rescue services (Mobile Disaster Warning)
- Collaboration from different locations 6
- Work on 3D models (fashion, medicine, etc), 7 in different places
- Presentation of cultural contents 8 (museums, exhibitions, art)



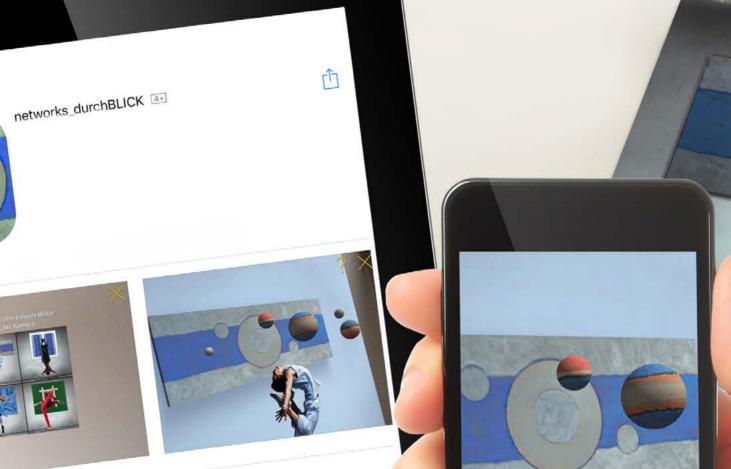


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Ralf Scheid's pictures have been comprised from various artworks from a number of years, yet have devel Ralf Scheid's pictures have been comprised from various artworks from a number of years, yet have devel fresh nuance of art, which has, in the meantime, become a highly sought after collectable. Professional da and artists have been inspirationally blended into either a virtual or an absolutely realistic gallery work, ble celectically and innovatively in with background objects and the original works of Ralf Scheid. New photo-graphic dimensions have been created for you to discover day by day, month by month providing daily inst-tion as we accompany you through 2020.



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AR software detects the marker in the original image because of iterations









Small image contains markers, iteration software detects AR function in the original image without markers.









Recognize AR markers on unclear levels







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how does it work, how is **XR2** used in medicine?









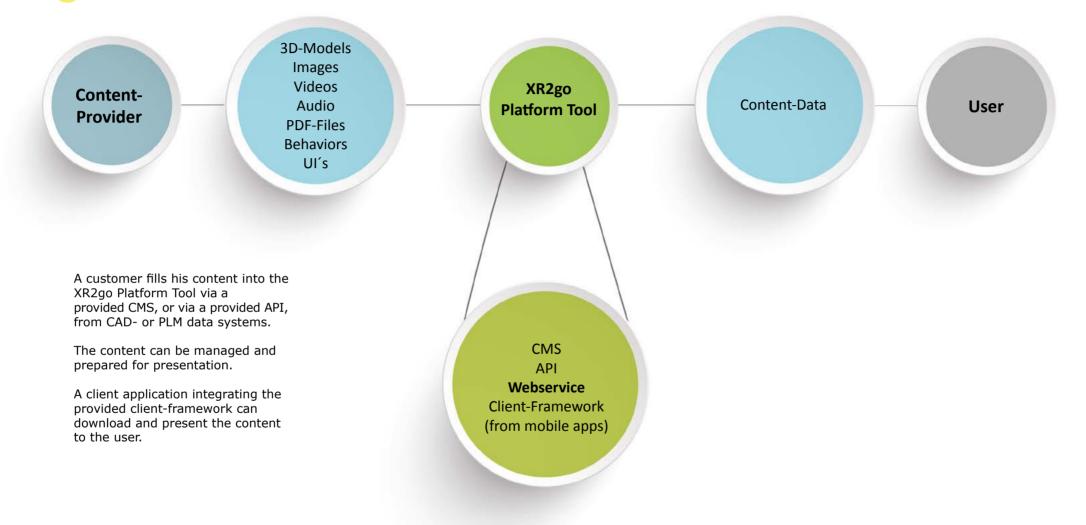
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Solution, **XR**² augmented reality platform tool











Possible applications

The ar2go Tool allows to present data in augmented form. 3d objects can be visualized interactively with the help of the Behaviour Editor. Pictures, audio, video and PDF can be displayed next to 3d objects.

AR-scenes can be equipped with a UI (User Interface), that can initiate actions. The 3d objects themselves can also be used as a trigger for executing actions.

With the help of Behaviour Definitions, the effort for creating the interaction can be kept to a minimum.

The opening of a door follows: On top there is the basic code for opening a door as a Behaviour Definition. On the bottom there is the linking of one door and its triggers with the Behaviour Definition.







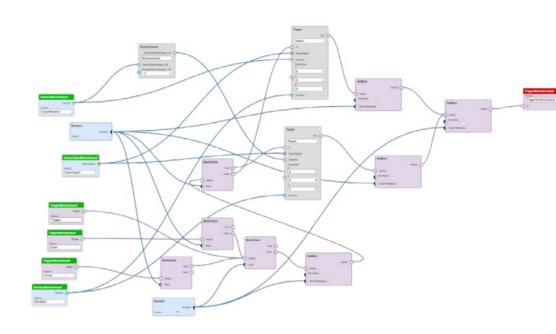


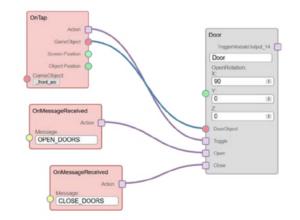




Input mask process definition AR / XR











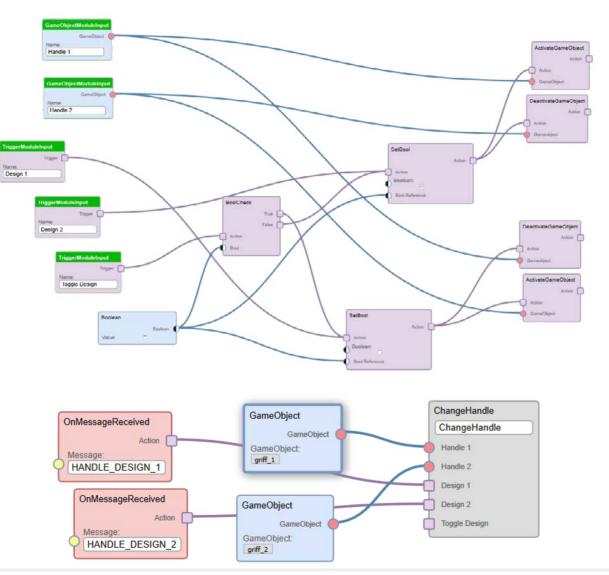








Input mask with further options







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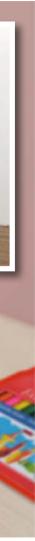
Easy live drawing and instantly receive AR results in 360 degrees 3D on demand via databases





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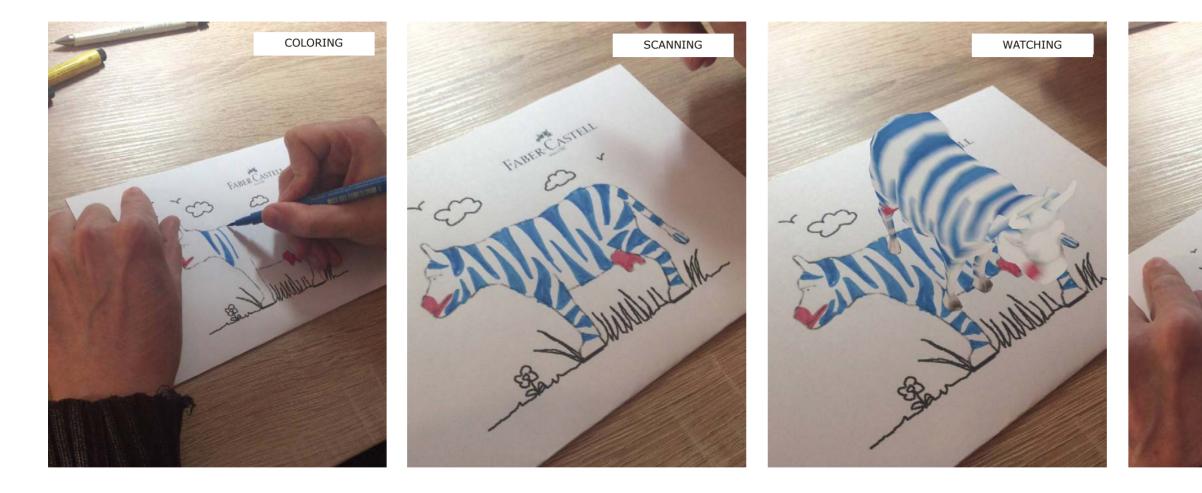








Researched live drawing and AR / XR viewing with children





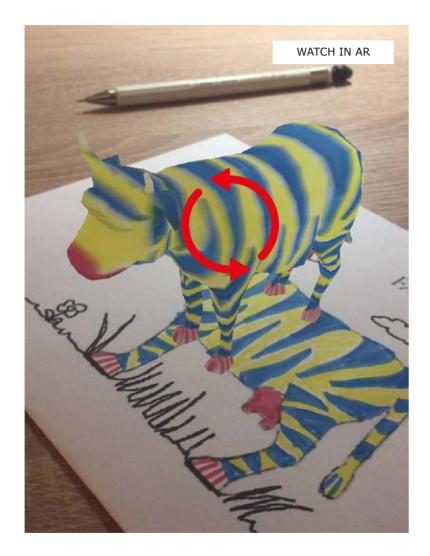








Take results to all desired points using finger control







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• to rotate

• to move

• to change

• to combine

• to interact





The XR/AR platform for information and training in medicine

The ar2go Augmented Reality (AR) tool is a platform for creating, managing, editing, and delivering medical content, especially for visual and interactive uses. The main focus is on Augmented Reality, AR applications, for which special functions are offered and which can be extended at any time to virtual reality, VR applications.

The ar2go AR tool is designed to accelerate the process of rendering content in Augmented Reality (AR). The presentation of content is the core theme of our solution. With this tool the user can concentrate entirely on the content. In addition to the integration of 3D objects, images, audio, video and PDF files, interactivity can also be realized.











How does it work?

The ar2go/XR2go tool enables data to be displayed in augmented form. The previously generated 3D objects can be visualized interactively using the Behavior Editor. In addition to 3D objects images, audio files, videos and PDF files can also be displayed.

AR scenes can be equipped with a UI (user interface) that initiate actions. The 3D objects themselves can also be used as triggers for executing actions.

With the help of behavior definitions, the effort to create the interaction on a minimum be kept.











Connect drawing, object directly and capture with the device and immediately get a 3D created figure.



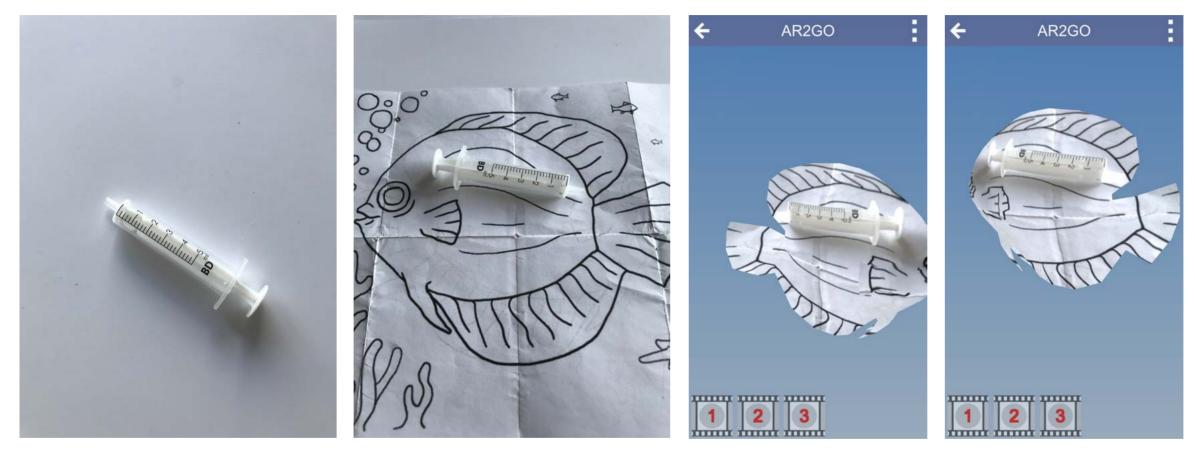








Connect drawing, object directly and capture with the device and immediately get a 3D created figure.



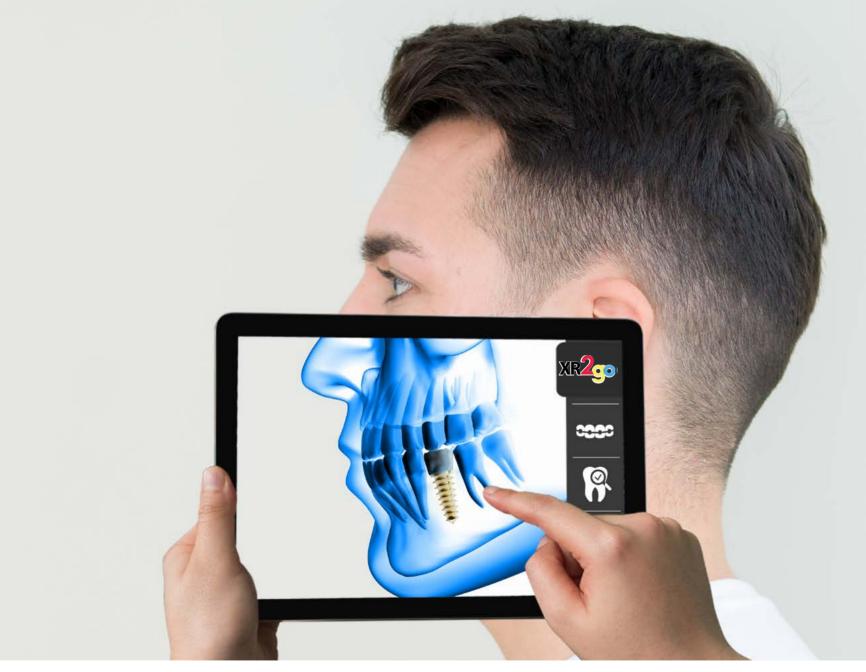
























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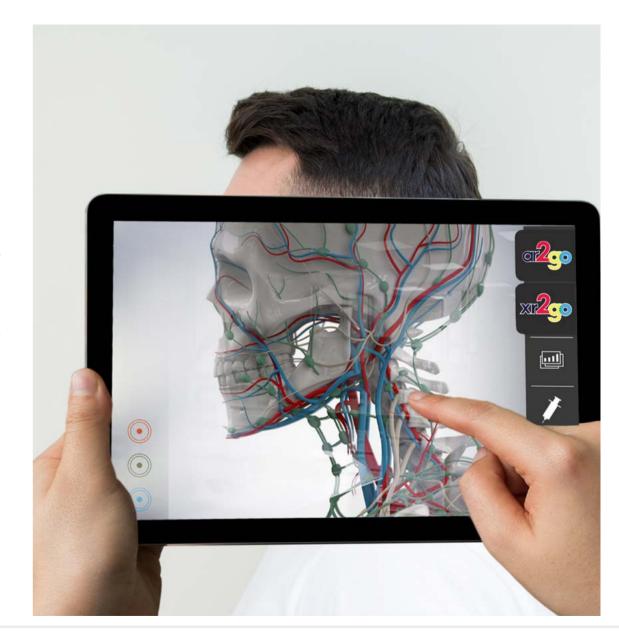




Medical use cases

Possible uses for knowledge transfer, further education, schooling, training in medicine:

- Building plan of the skeleton and bone structures in AR/XR
- Organ construction with AR/XR support, working together using 3D objects for live organ imaging
- Illustration and interaction with the digital twin of humans
- Movements, organ care, blood flow in AR/XR
- Dentistry Representation of all denture structures live modification by the users of the software in AR/XR
- Metabolic representation in AR/XR
- Live visualization of surgical instructions in AR/XR
- Cost reduction through digital support with the help of interactive models and real images in 360 in AR/XR
- Reduction of the error rate in both the medical history and operations with the help of AR/XR
- Increase the success rate in the dignostic area using AR/XR
- Applicable for medical and dental medicine, from the medical history to the surgery
- Applicable for the visualization of organ and surgery presentations of all kinds (e.g. in meetings and surgery preparations)
- Can be used for health status recording, further education and training as well as technical training in medicine / dentistry
- Applicable for digital learning, checking and implementing medical processes using AR/XR

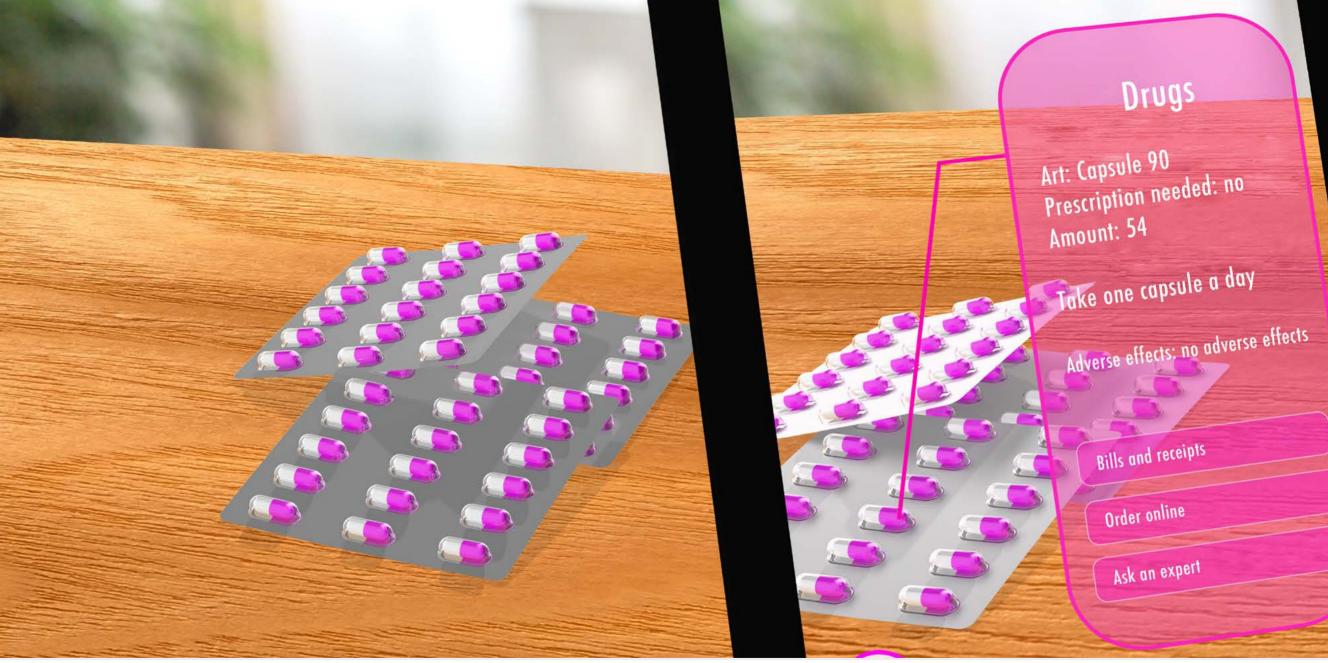














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Medical use cases

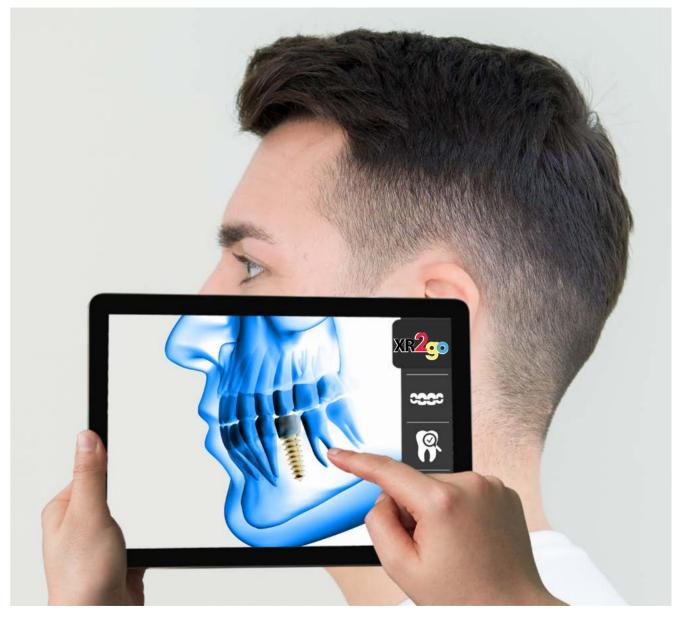
The platform allows you to scale and provide content extremely quickly. The simple handling of the Behavior Editor and the XR2go technology, which can also be implemented in VR if required.

With this tool, a wide range of applications and uses in medicine can be used to create a common one in the shortest possible time educational models are built that, properly and jointly controlled, an outstanding tool for education, training, training & further education represents.

Outstanding augmented reality, AR/XR technologies will convince clinics and doctors to work with this tool, because medical progress is so much accelerated and occurs in many areas of work, is saving time and is making work easier.

The basic technology and software strategy always remains functional and constant and can be expanded iteratively very quickly.

The ar2go platform is available for you to test and use worldwide for you as a medical doctor.





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Where can AR/XR also be used?

Engineering, architecture, technical development, industry, etc. 1

- Navigation (visualization of the environment) (2)
- Assistance for fitters (repair and installation) B
- Medical support (retrieval of data during surgery) 4
- Support for emergency services (mobile disaster warning) 5
- Cooperation from different locations 6
- Work on 3D models (fashion, medicine, etc.) in different places 7
- 8 Presentation of cultural content (museums, exhibitions, art)







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ADAC Tourism Award 2018

APP "HOHENZOLLERNERLEBNISRADWEG"

In 2018 the ErlebnisRadweg Hohenzollern won the third place of the ADAC "Tourismuspreis" Bayern. The augmented reality cycle path of about 95 kilometres was designed by the regional management of the Fuerth district and follows the tracks of the Hohenzollern from Nuremberg through the rural district of Fuerth to Ansbach. In addition to the unique effects and history of the Hohenzollern, the app also offers service information on gastronomy and other offers along the way. An integrated navigation in addition to the signage faciliates the modern scavenger hunt. Therefore the cycle path app is the ideal courier.



Source: ADAC nordbayern. Award ceremony for the third place of the ADAC tourism prize at the Cadolzburg



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Award: Silver & Gold medalist







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Market research and implementation support



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IHK Creative Award





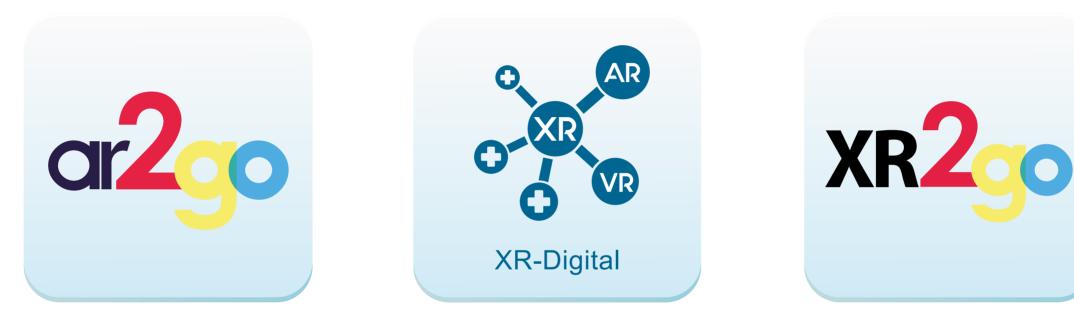
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The future is a_{200}^{200} , xR_{200}^{200} in digital medicine and heathcare by Ralf Scheid:





development patent protected by





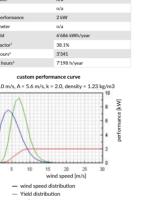


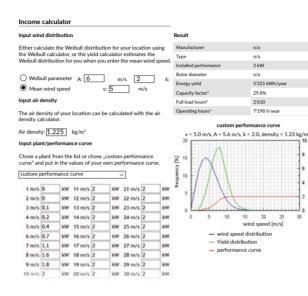


Patented by XR: novel patented multifunctional turbine

Thanks to a 200 XR200 the XR platform developed by us i.a. for augmented / virtual reality, it was possible for the first time worldwide to develop a completely new type of multifunction turbine using only virtual, digital processes and to obtain a patent for it. With a completely different design concept, the first patented, intrinsic multifunction turbine, movement, shadows and deflections in favour of humans and / or wildlife are avoided. This creates a high level of acceptance while increasing efficiency.

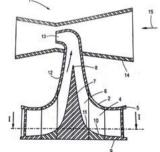
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Income calculator



1 Wind turbine	2 Rotor
3 Rotor blades	4 Flow channel
5 Air guide element	6 Free space
7 Flow deflection surface	8 Tip
9 Floor	10 Lower surface
11 Footer	12 extended flow channel
13 Outlet	14 Venturi nozzle

5 Air guide element 7 Flow deflection surface 8 Tip

9 Floor

Patent-Application No. EP11177566

10 m/s 1.6 kW 20 m/s 2

Patent-Publication No. EP2420672

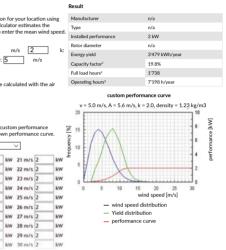
Figure 1 Cross-section through the turbine

Figure 2 Rotor of the H 1.5 plant

Invention of a new multifunction turbine with very high efficiency, for use in all fluids, water, oil, gas, air.











Partnership support through:

Bayerisches Staatsministerium für Wirtschaft und Medien, Energie und Technologie





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Facts: 2015 Foundation with 4 partners.

Customers:

2 major projects and 9 medium-sized companies projects

Cooperation:

Offer: AR / VR applications and platform usage, F&E, Use of patents, knowhow Transfer, technical communication

Search: Partner for selected projects, Investors, shareholders



Nummer der Marke: 018156182 Marke eingetragen



Deutsches Patent- und Markenamt

Scheid & Partner, helloAR UG is the leading company for AR/VR/XR platform technology of mass data processing & mass data provisioning. Therefore in the areas of IoT, AI (KI) & digitization are given very great posibilities of optimization.

ALD GmbH - Wolfgang von Zoubek, IBM, Schwindt CAD/ CAM-Technologie GmbH, Okulon GmbH are our partners on server-side and distribution for your projects in platform handling in AR/VR/XR. Therefore this would be very interesting for you to implement business models.

We also hold patents for a novel multi-purpose turbine. In the areas of environment / energy therefore arise opportunities for synergies, for new customers and supplier relations as well as for cooperations.

Our software developments, the new (augmented, virtual, -mixed reality) AR / VR / XR platform, is the first of its kind in the world which scales fully and allows mass data processing and mass data delivery. This accelerates the digitalization immensely and can also optimize it. We are active in the information and communication technology sectors, as well as R & D and patent holder company in software and technology, design and presentation. Please do not hesitate to contact us.





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Deutsches Patent- und Markenamt

OR-Code scan







Contact us



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Scheid & Partner communications and more

augmented reality application









