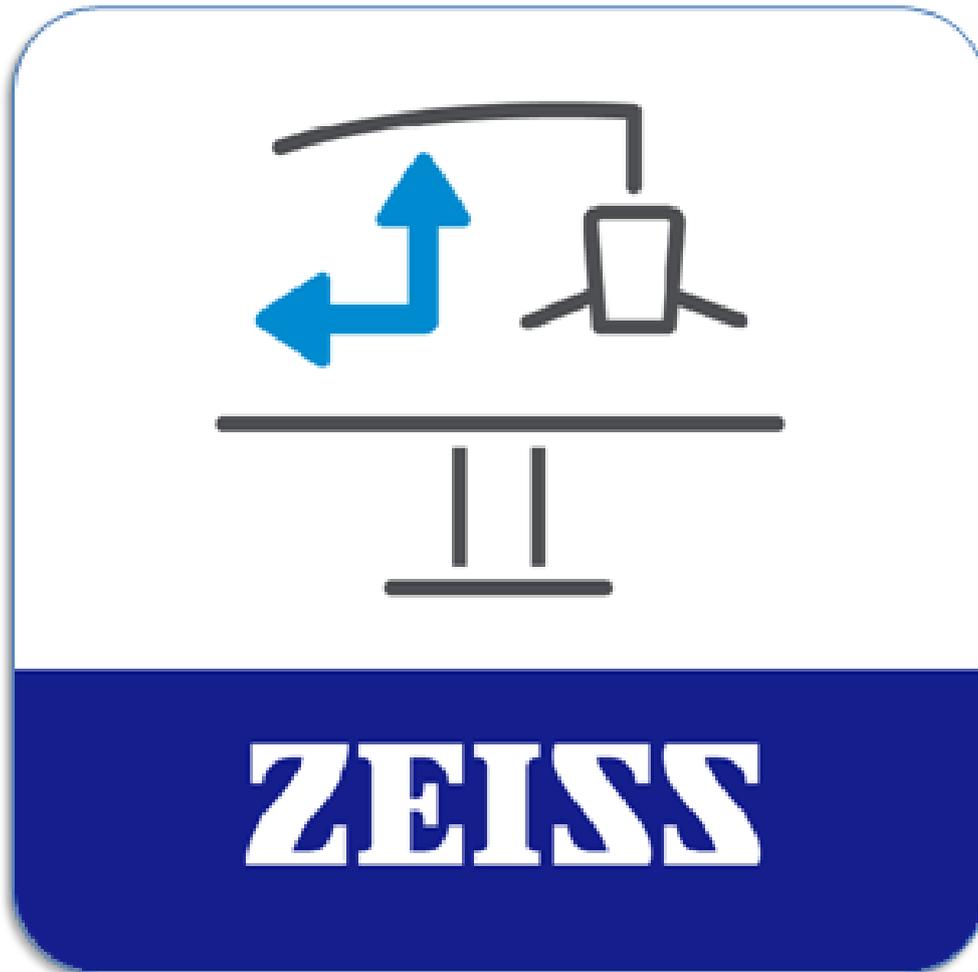


ZEISS ORvis

Planning with ZEISS ORvis



Software release 2.7.4.4, 05/2022



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apps.med@zeiss.com

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1 Basic functions

The subject of this chapter is the creation of a new project, including how products from the catalog are inserted, positioned, and aligned in the perspective view. Above that, you learn how to handle interactive objects and to navigate through your planning.



Figure 1: Example of ZEISS KINEVO 900 in ZEISS ORvis

1.1 Starting a new project



Tap the ZEISS ORvis icon to start the app. Enter your username and password.

When starting ZEISS ORvis the first time, a new project is automatically initiated. If you have previously planned with the app, the last opened project will be displayed. To start a new project, select the entry "New" via the menu.

Side note: In addition to an empty planning, you can also load a sample here.

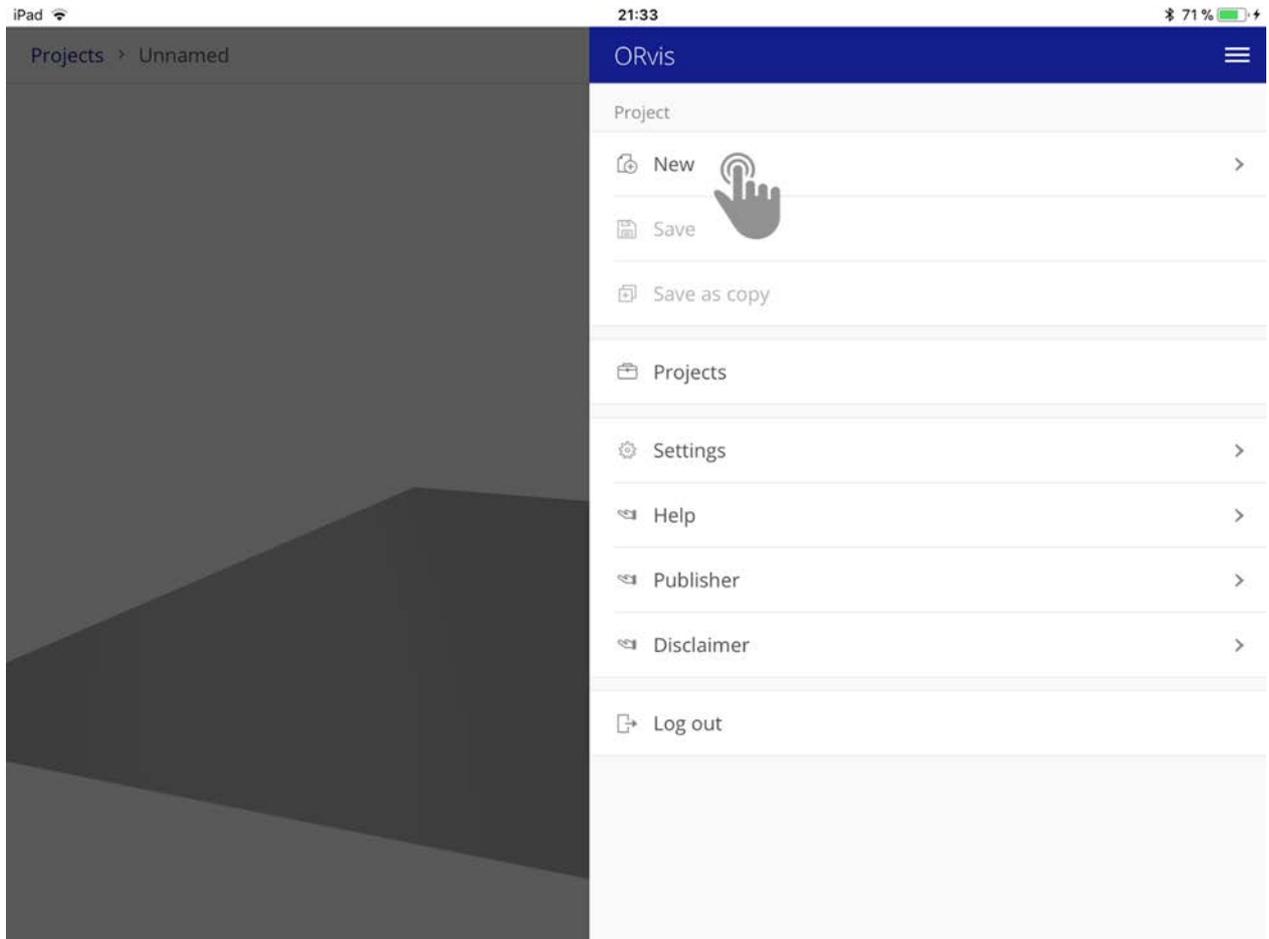


Figure 2: Creation of a new project via the menu

1.2 Inserting objects from the catalog

Tap the *Catalog symbol*  to open the product catalog. By tapping on the entries, you can easily navigate through the catalog items to find the required products. Alternatively, use the search at the top. Open the *Neurosurgery* folder and choose **ZEISS KINEVO 900 floor stand** by tapping it. The product will be inserted into the planning.

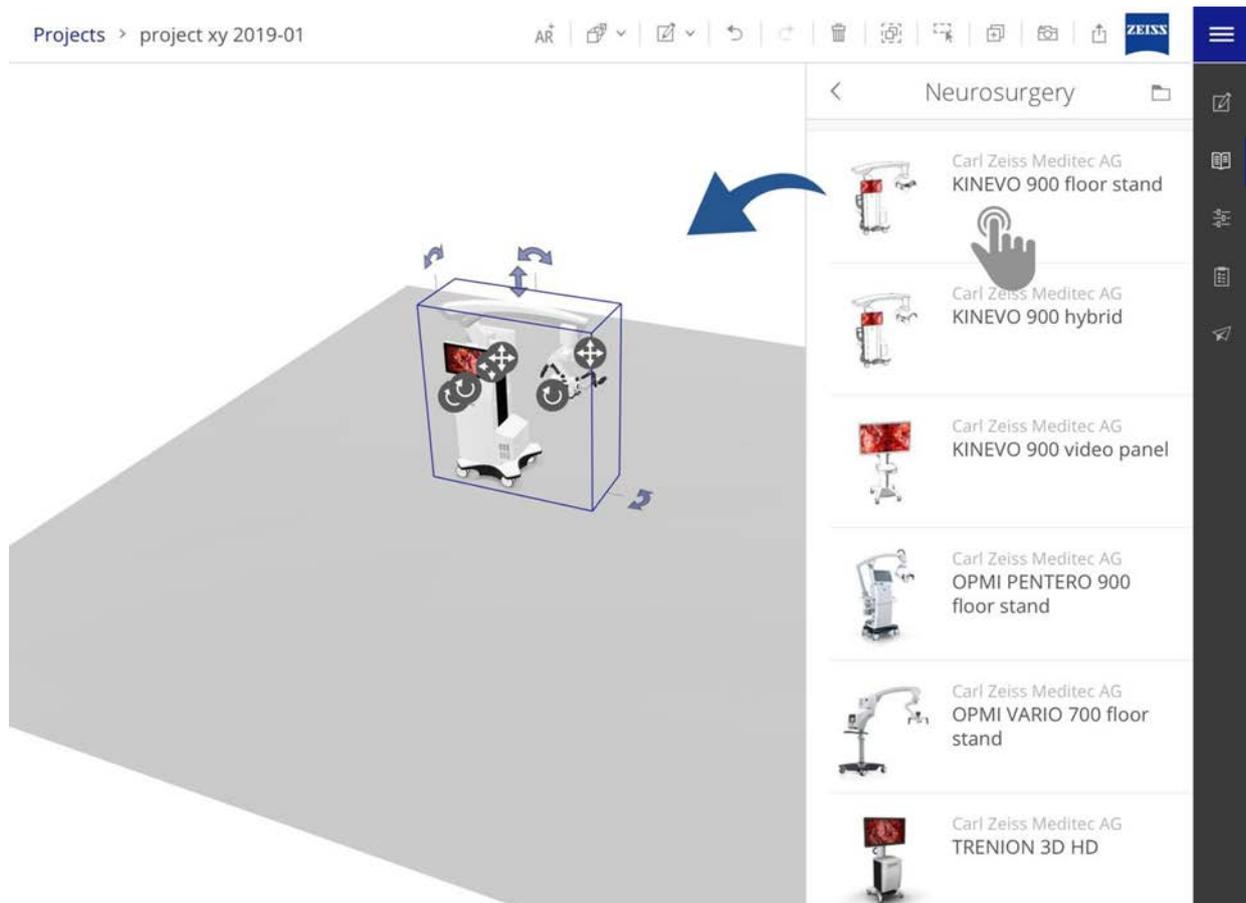


Figure 3: Inserting an example device

1.3 Navigation in 3D

Before starting navigation, make sure to deselect the product by tapping into the scene. This way you will avoid moving the object by accident.

There are three navigation modes in ZEISS ORvis:

- Tap and hold with one finger (*orbit*). By moving your finger on the screen, you swing around the set point in your design.
- Tap and hold with two fingers (*pan*). By moving both in the same direction you can shift the view on the design.
- Zoom in and out the scene by opening and closing your fingers.

Combine these to see the plan from any angle. Try to get a view like this:

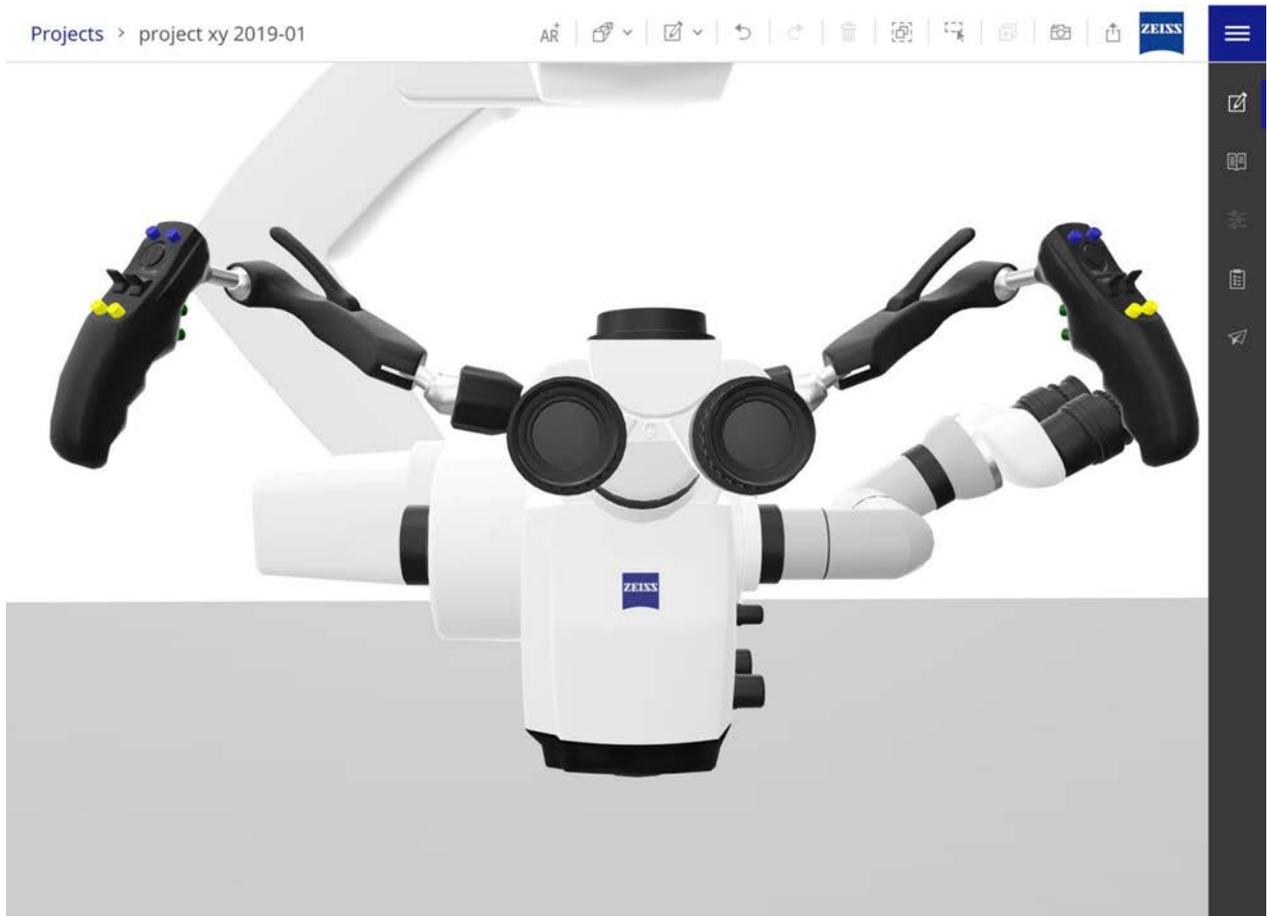


Figure 4: Example of how to use the zoom

Tip: Lost in your planning? Whether you are too far from the scene or too close to an object, double tap to center your objects in the viewport.

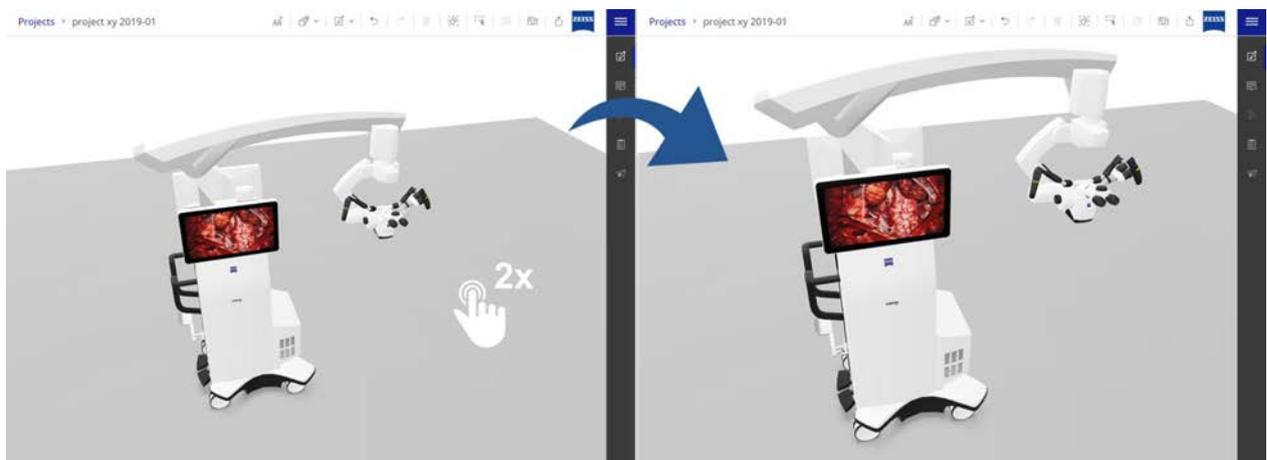


Figure 5: Double tap function to get a centered view

1.4 Moving and rotating products

To move an object, it has to be selected (tap on it). The selection box indicates whether the product is selected or not.

Tap the object again (not on any of the interactors) and hold it with one finger. Move your finger to make the object follow on the floor.

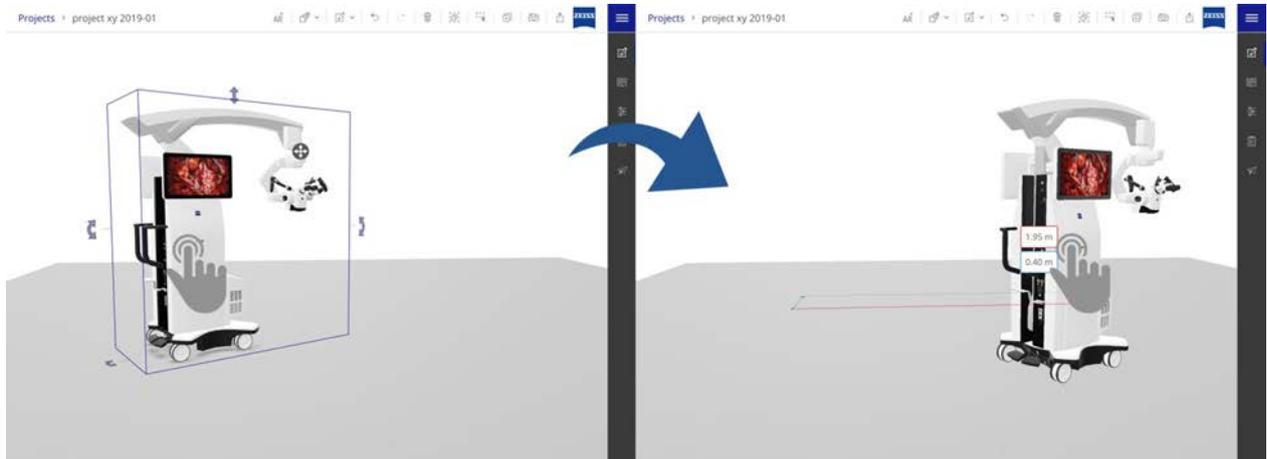


Figure 6: How to move an object

To rotate the product, tap and hold the blue *rotation interactor* arrow.

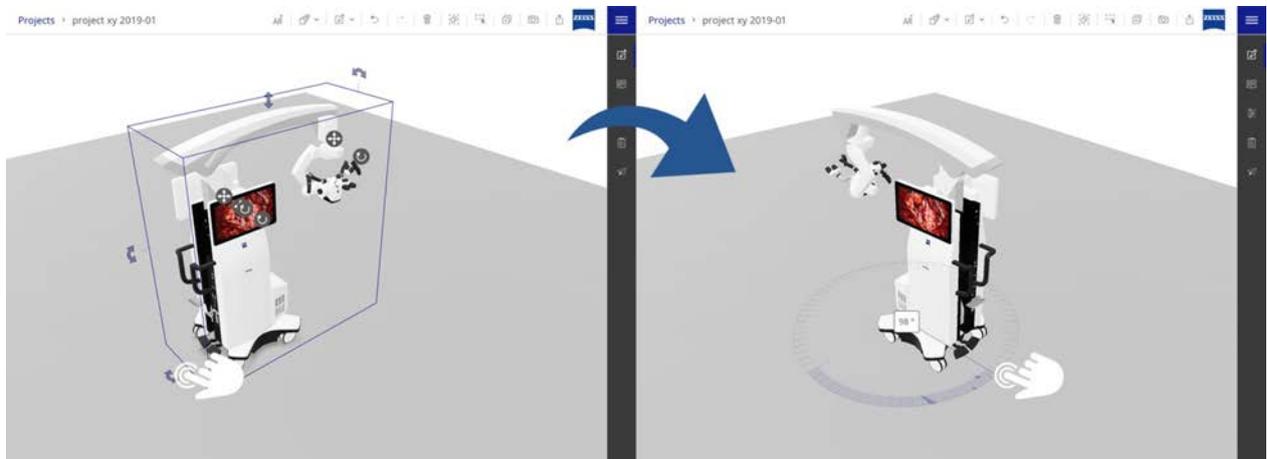


Figure 7: How to rotate an object

1.5 Interactive products

The **ZEISS KINEVO 900 floor stand** is an interactive product and has additional interactors. Select the object to make them visible.

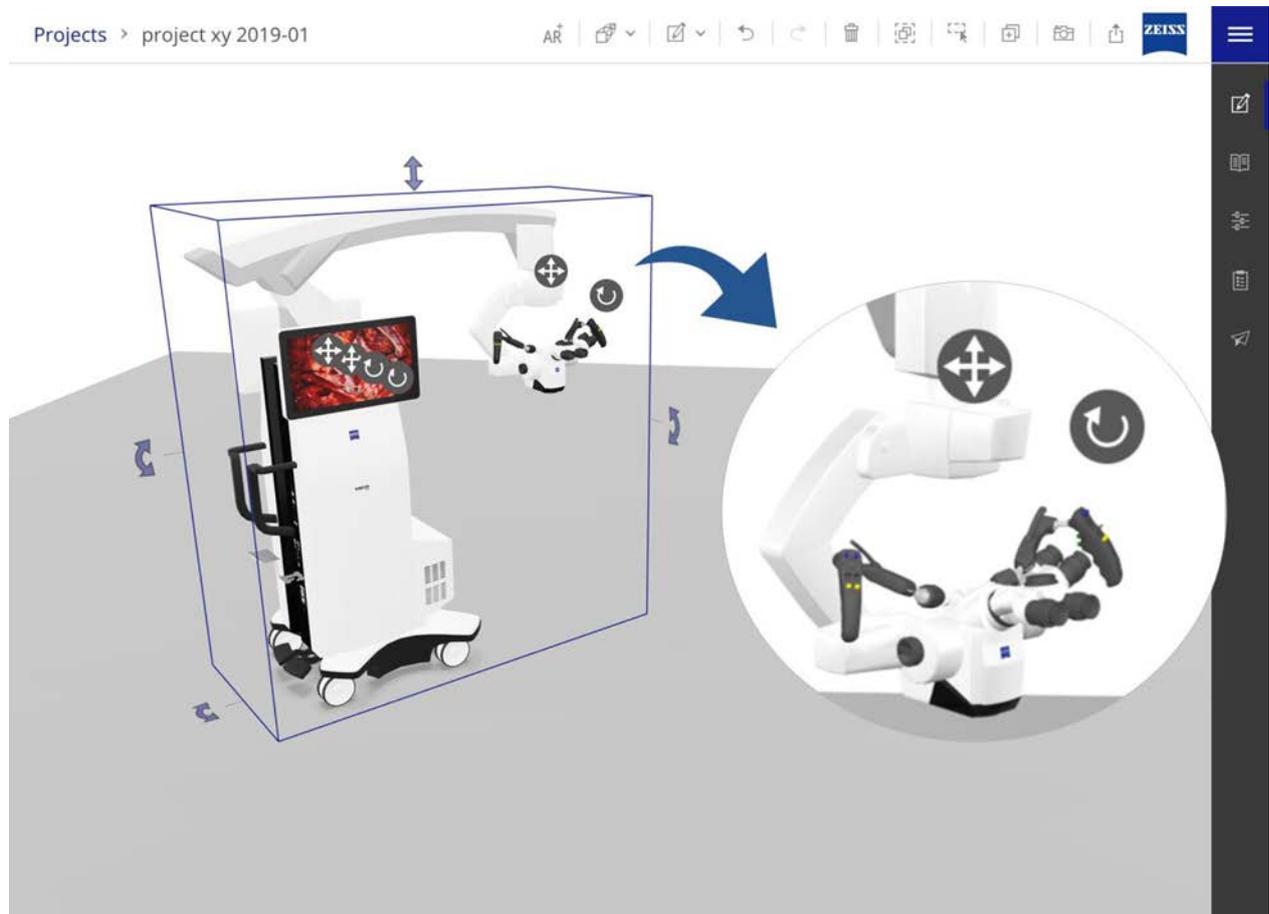


Figure 8: Tap on an object to see additional interactors

These types of interactors are product-specific and visualize the degree of movement of the respective element, following the logic of inverse kinematics. In inverse kinematics, the last link of the kinematic chain, the so-called end effector, is moved and brought into the desired position. The other links of the chain must then take appropriate positions according to the degrees of freedom of their joints.

Find out what the **ZEISS KINEVO 900 floor stand** can do. How far can the arm swing and the monitors rotate? Use both types of the given interactors.



This interactor indicates that this part of the product can be rotated. Tap and hold it to rotate the element in the possible range.



Tap and hold the interactor. When you move your finger, the element will follow the movements in the possible range.

1.6 Saving projects

To save the project, tap the menu ☰.

Tap *Save*  and enter a name for the project in the appearing dialog.

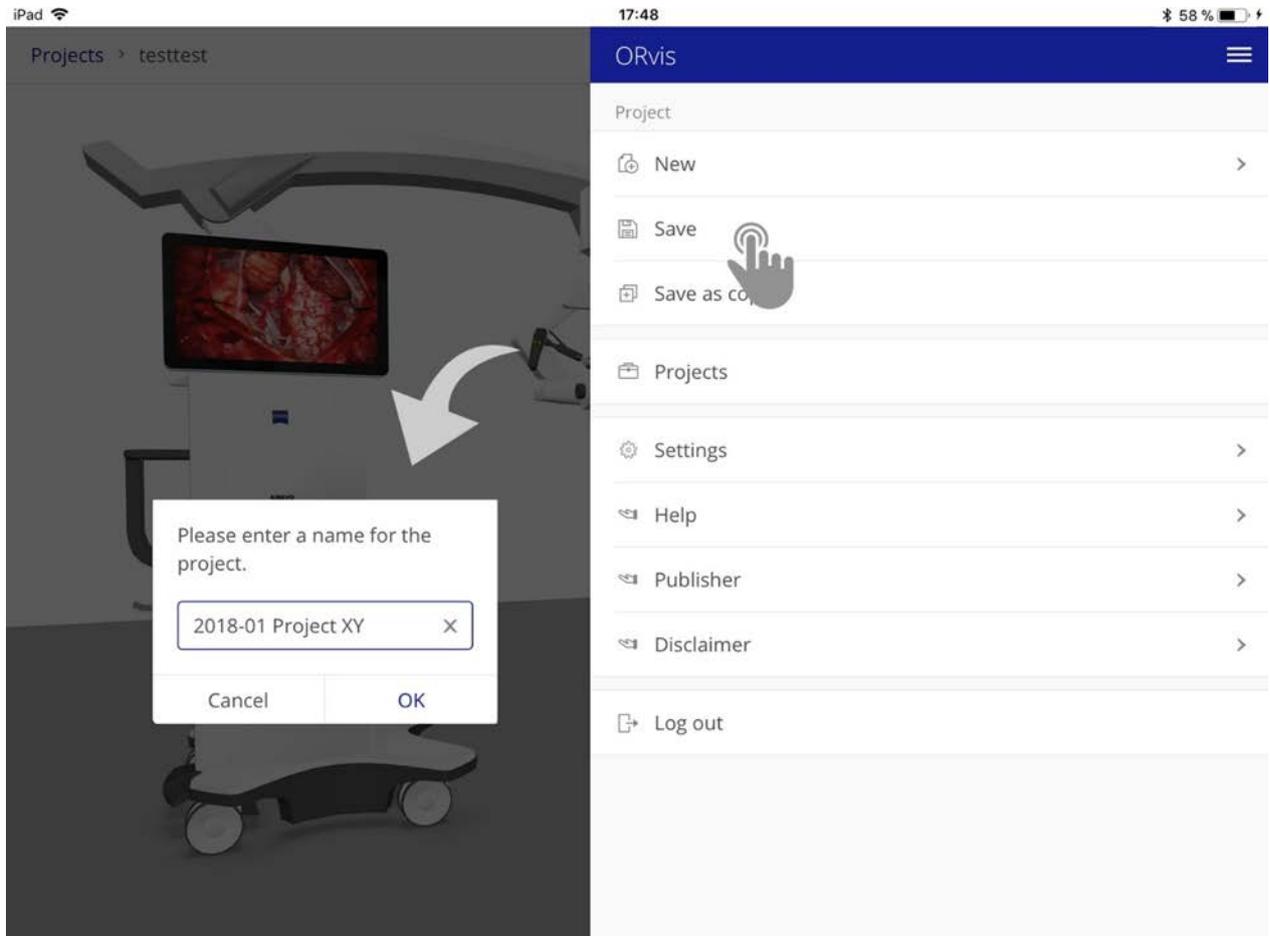


Figure 9: How to name and save a project

To save a duplicate of an existing project, use *Save as copy* .

When you start a new project, ZEISS ORvis asks whether you want to save it or not. The saved projects can be found under *Projects* .

2 Configuration and commercial information

Once an item has been chosen, it is about making the highly detailed product a solution. For this, ZEISS ORvis makes it quick and easy to configure the products as needed. In addition, this chapter shows how to create an article list based on the configured products.

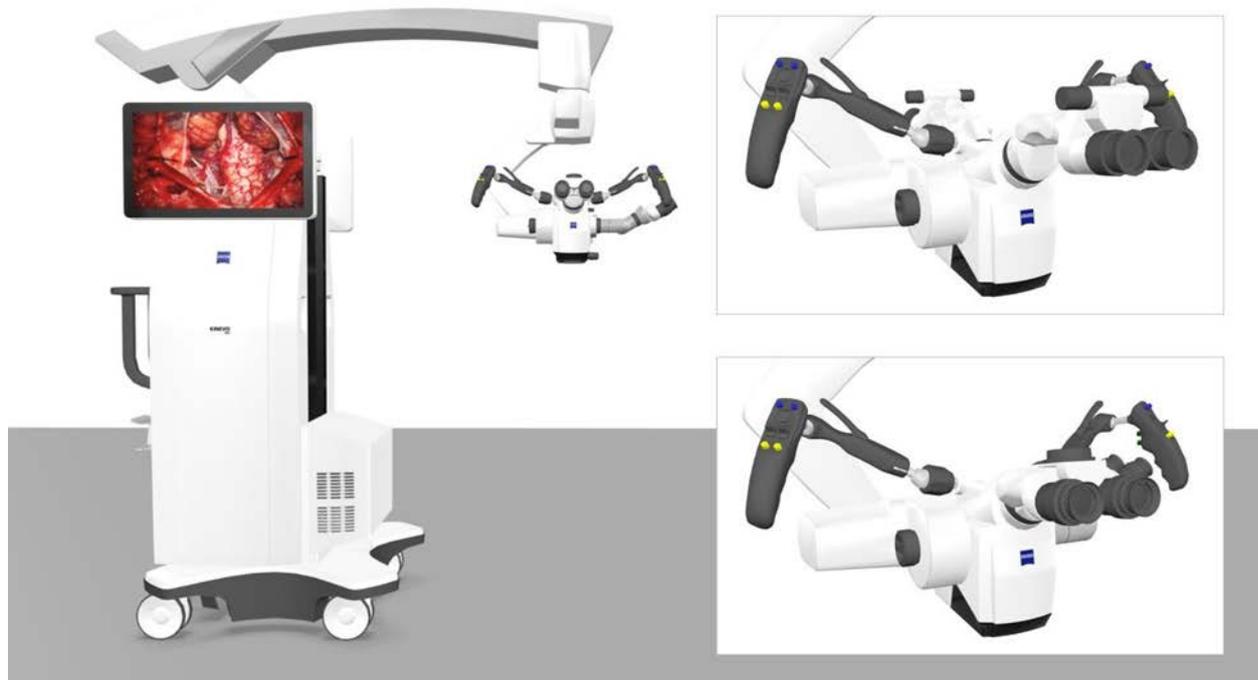


Figure 10: Detailed view of an object

2.1 Configuring products

Products are available in different variants. The properties can be selected and configured via the properties' editor.

Select **ZEISS KINEVO 900 floor stand**.

Then tap the *Properties* icon  in the menu. All properties of the selected article are displayed. To open the variant list, tap on an entry. Tap again to make your choice.

The configuration is displayed immediately in the 3D planning area.

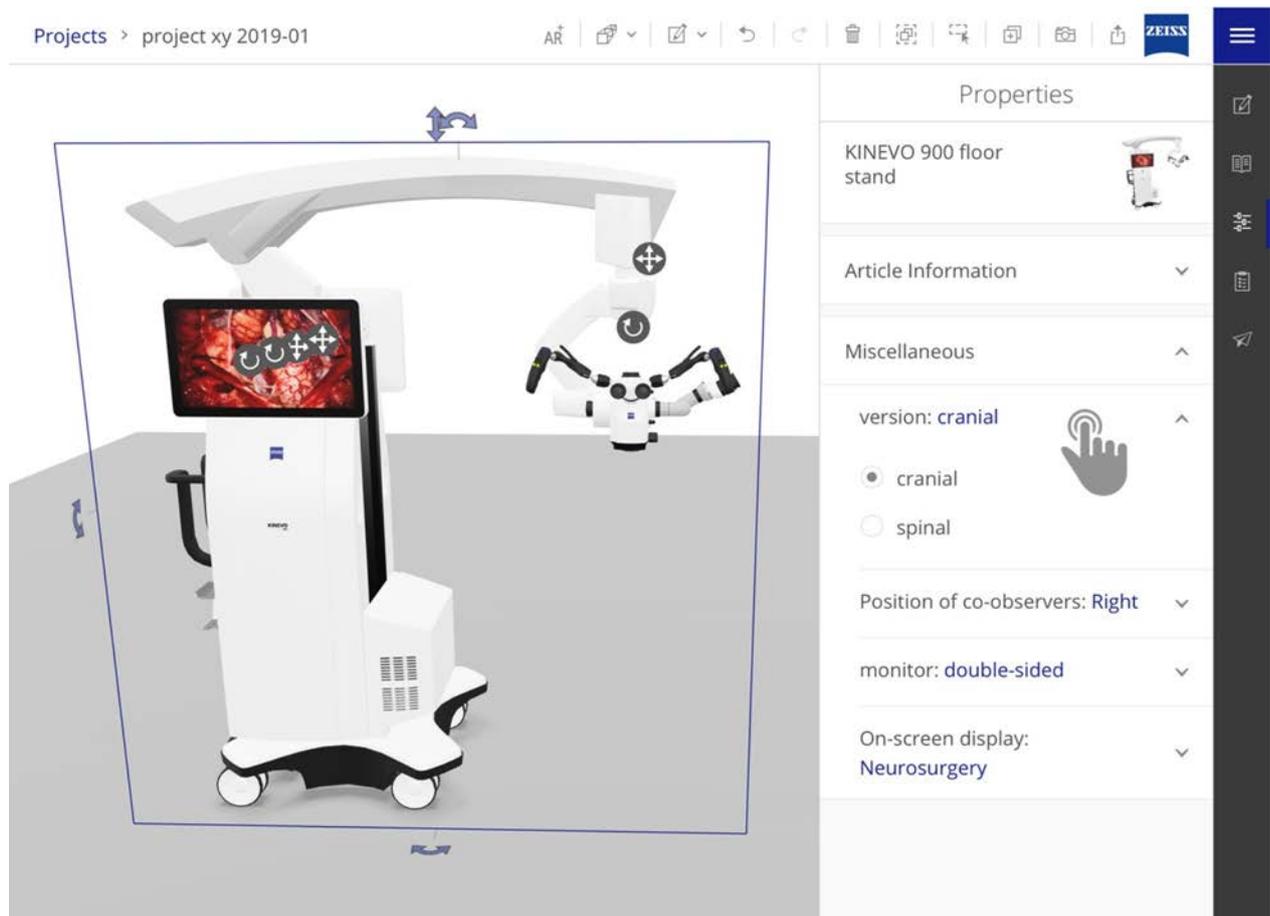


Figure 11: Overview of the *Properties* icon

2.2 Commercial data

The products inserted and the chosen variants can be viewed in the article list.

Tap the *Article List* icon  in the menu. ZEISS ORvis is automatically creating an article list based on the configured products. In this example, the **ZEISS KINEVO 900 video panel** was added. Both products are listed in every detail.

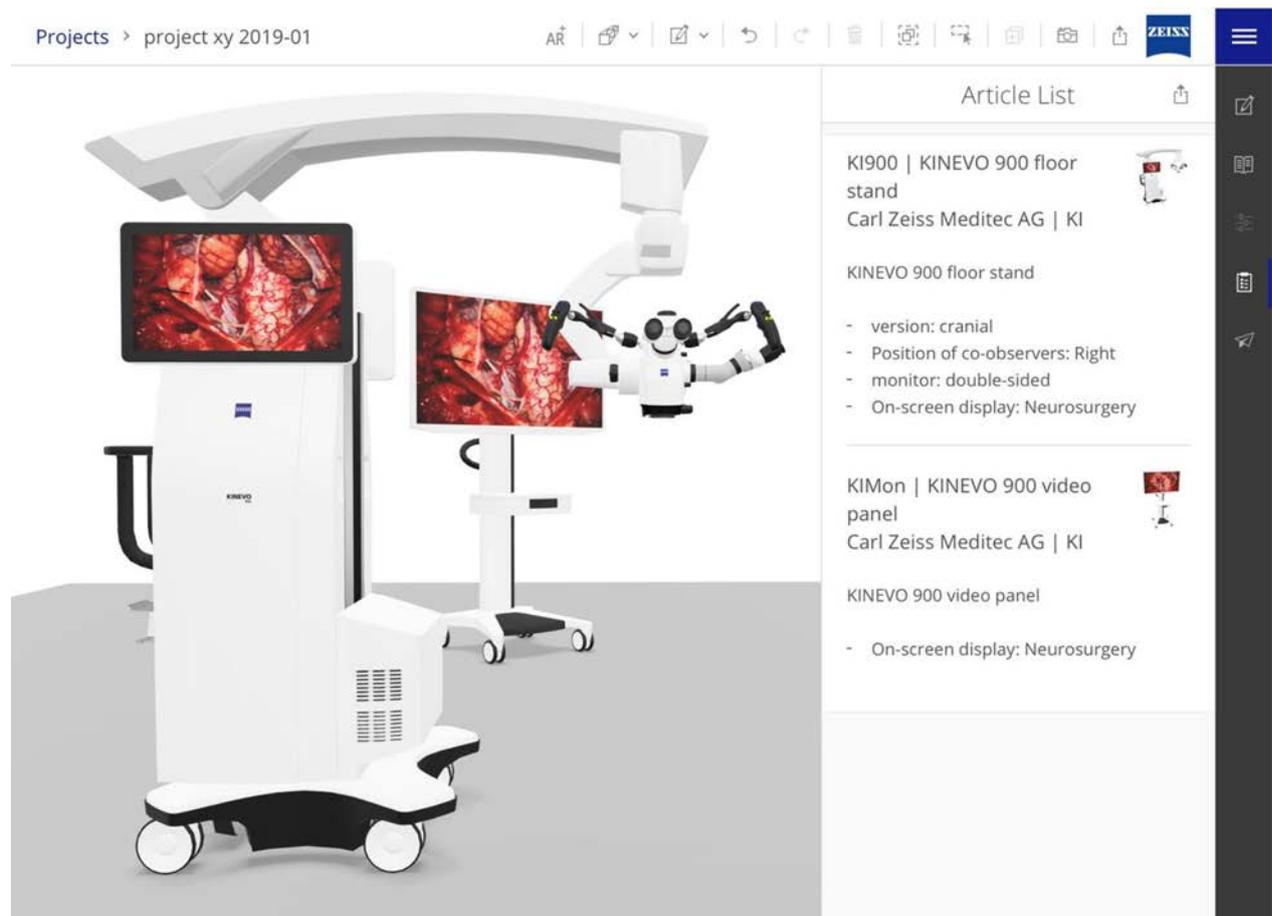


Figure 12: Overview of the *Article List*

The *Article List* can be shared with others or opened in another app for further processing. Use the icon on the top of the *Article List*  or the *Share* symbol  in the menu.

3 Views and images

Navigating in 3D gives a great user experience, and yet, other views are important, too. Sometimes it needs a change of perspective to check details or to maintain the overview. However, the right view can also help to gauge dimensions and compare solutions. Learn how to change the view on your planning and to capture it in a picture.



Figure 13: Example of the front view

3.1 Changing the perspective

Tap the *Perspective* icon  to open the dropdown menu of all available views. By tapping one entry, the view will be adapted.

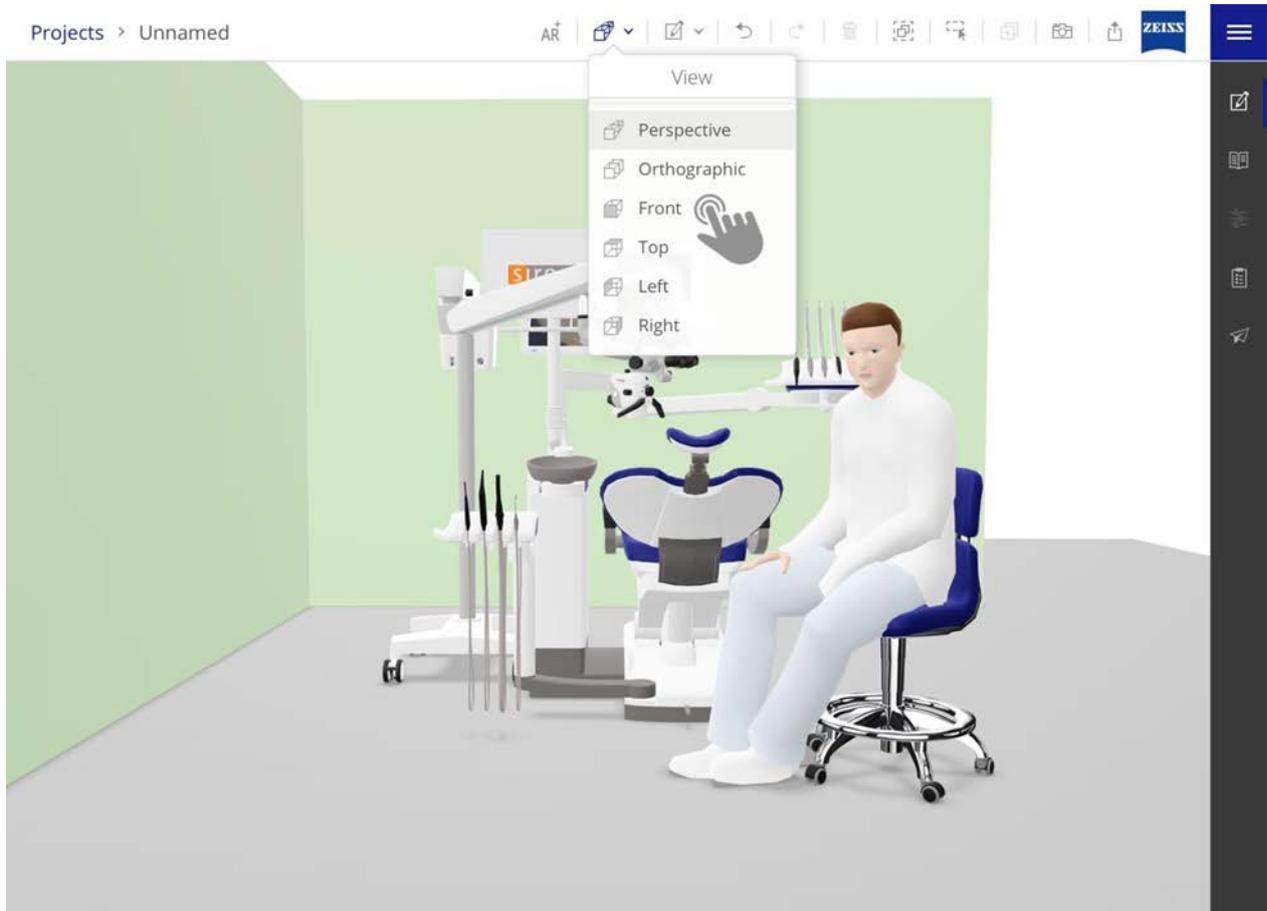


Figure 14: Top bar selection of the different views

3.2 Creating images of objects in different views

Tap the *Catalog* symbol  to open the product catalog.

Enter **ZEISS EXTARO 300** into the search and choose **ZEISS EXTARO 300 floor stand**. (Alternatively, it is possible to open the **Dentistry Folder** and navigate to the aforementioned product.)

Tap the *Perspective* icon  and select *Front*. Double-tap to center the object in the viewport.

Tap the *Snapshot* symbol  to make a snapshot of the view. The image will be saved in your photo gallery.



Figure 15: Top bar selection of the *Snapshot* icon

Now go ahead with making snapshots from the following views: *Left*, *Right*, *Rear*. Turn your tablet to an upright position for the views *Left* and *Right*.

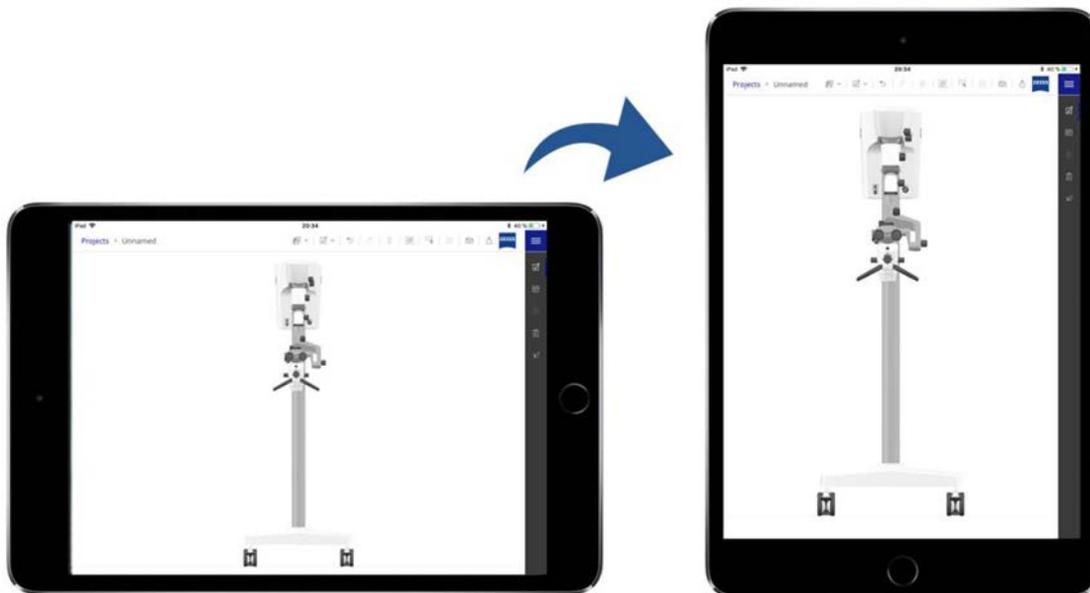


Figure 16: How the view changes when turning the tablet to an upright position

Choose *Perspective*.

Tap the *Workspace* icon  in the top menu and select invisible. The floor is hidden. Got a nice perspective on the object? Then take another snapshot.

Your *Photo Gallery* should contain the following images now.



Figure 17: Example *Photo Gallery*

3.3 Comparing solutions or showing alternatives

Tap the *Catalog* symbol  to open the product catalog.

Enter **ZEISS EXTARO 300** into the search and insert one after the other **ZEISS EXTARO 300 floor stand**, **ZEISS EXTARO 300 ceiling mount** and **ZEISS EXTARO 300 wall mount**.

Change to the top view via the *Perspective* icon .

Line up the products by moving them with your fingers.

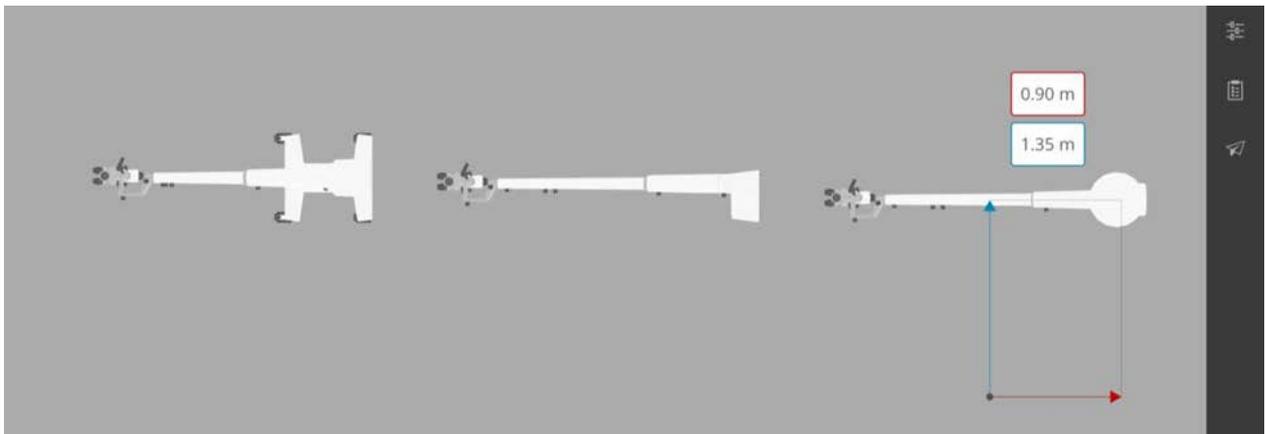


Figure 18: Example of how to compare products

Now you can try all interactors of each product in the *Perspective* and switch to *Front* view for comparing the products. For a better impression of the dimensions, add a person from the product catalog (*People folder*).

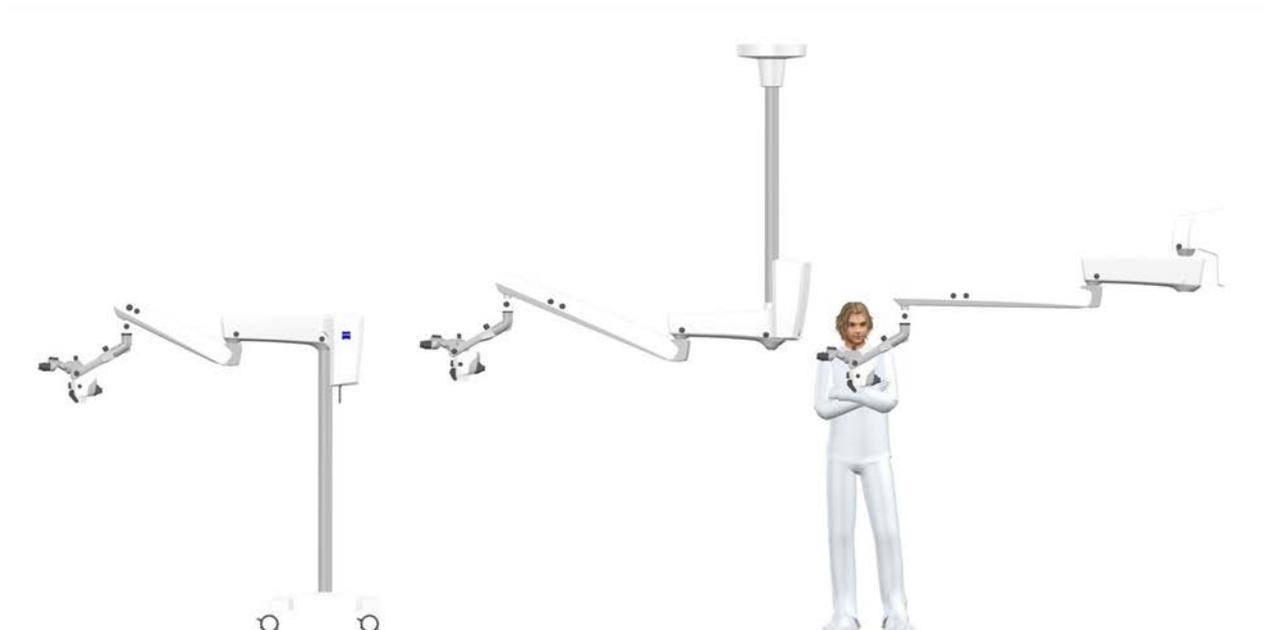


Figure 19: Comparison of products shown by dimensions

4 Planning a dental facility

Start with a product, find a solution. This chapter is about planning a complete dental facility. We will align the objects needed and share images, CAD data as well as commercial data of the just-created plan.

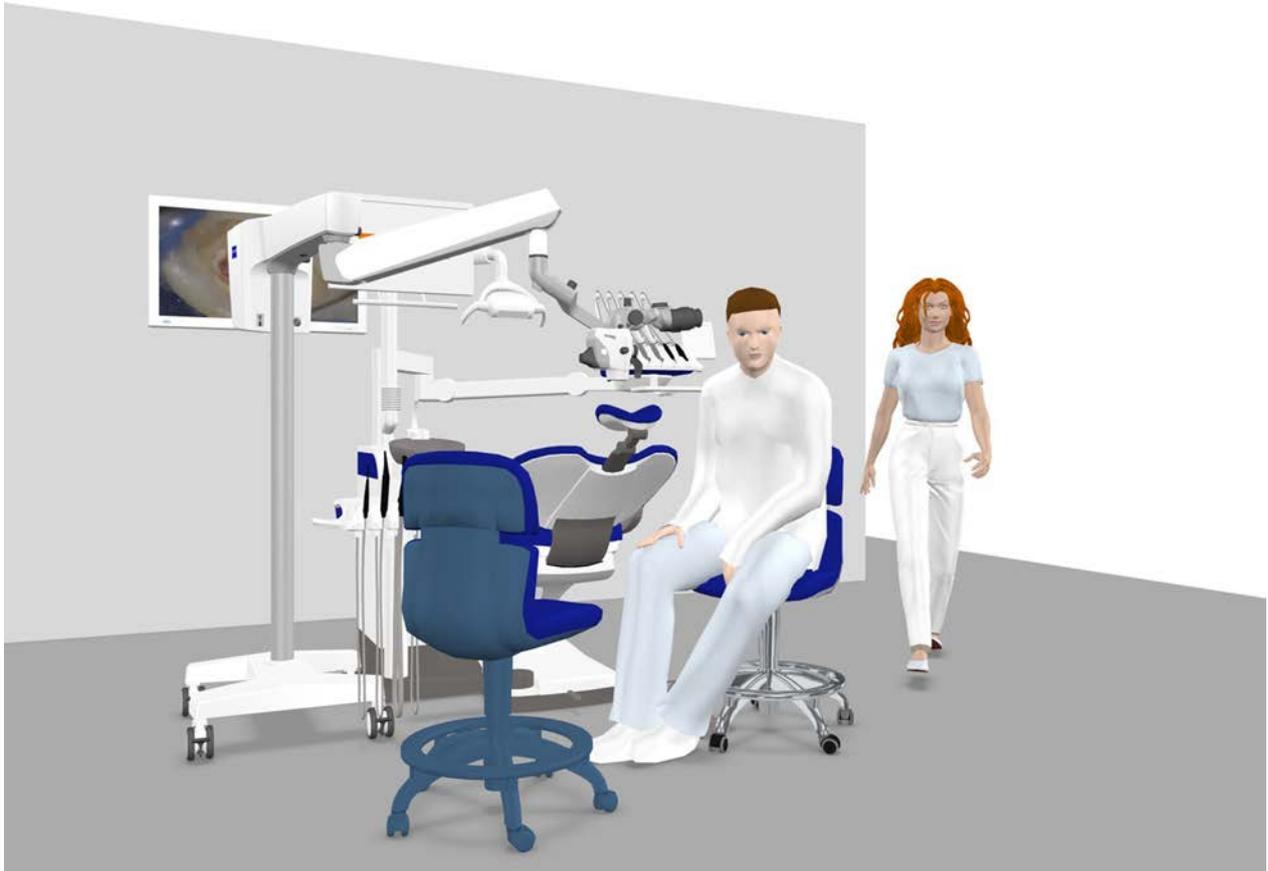


Figure 20: Example of a dental facility

4.1 Planning a combination of ZEISS EXTARO 300 and a treatment center

The image on the previous page is the target image. Please use the wall dimensions and the *Front* view below for further orientation.

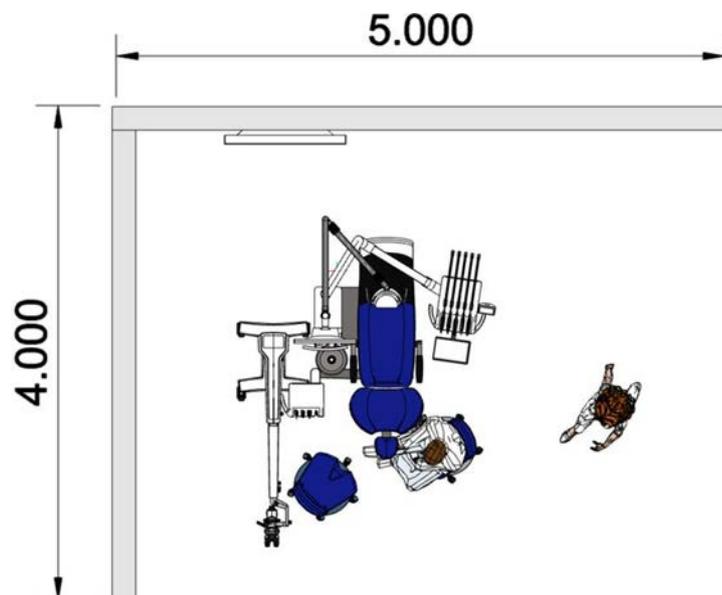


Figure 21: Example of wall dimensions

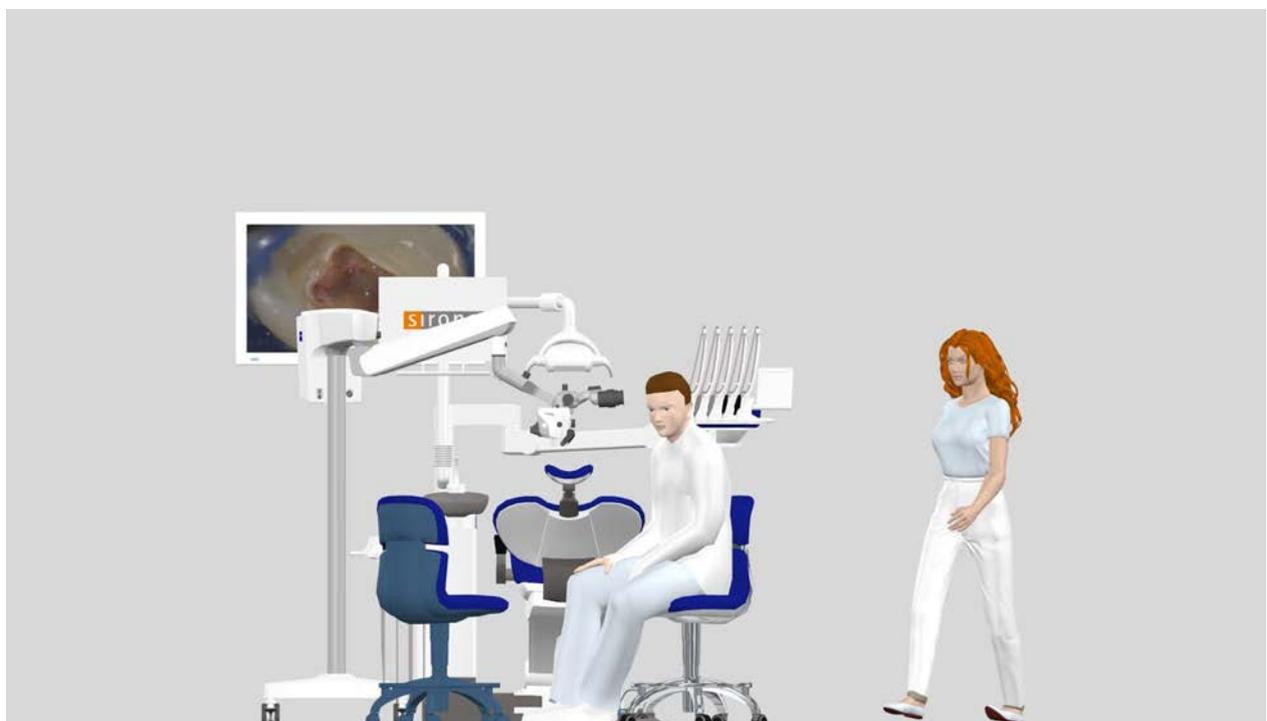


Figure 22: Example scenario of a dental facility

These are the products that shall be used plus the name of the folder in which they can be found.

- Room corner (*Extras*)
- ZEISS EXTARO 300 floor stand (*Dentistry*)
- Treatment unit (*Equipment from 3rd party vendors*)
- Sirona Hugo (chair) (*Equipment from 3rd party vendors*)
- Monitor 42" NDS (*Equipment from 3rd party vendors*)
- Doctor 5 white (*People*)
- Nurse 2 (*People*)

Start a new project by tapping *New*  within the menu  and choose the *Top* view.

Tap the *Catalog* symbol  to open the product catalog and select the respective folder. Insert the **room corner** from the sub-folder **Extras**.

Select the wall element by tapping it and open the *Properties* . Adjust the *Depth* to 4.00 and change the color to *light grey*.

Open the *Catalog*  again to insert the next object. Slide down with your finger to make the search appearing at the top. Enter **Teneo®** and choose the first entry. Position it in the room and rotate it 90° by tapping and holding the blue rotation interactor when moving your finger.

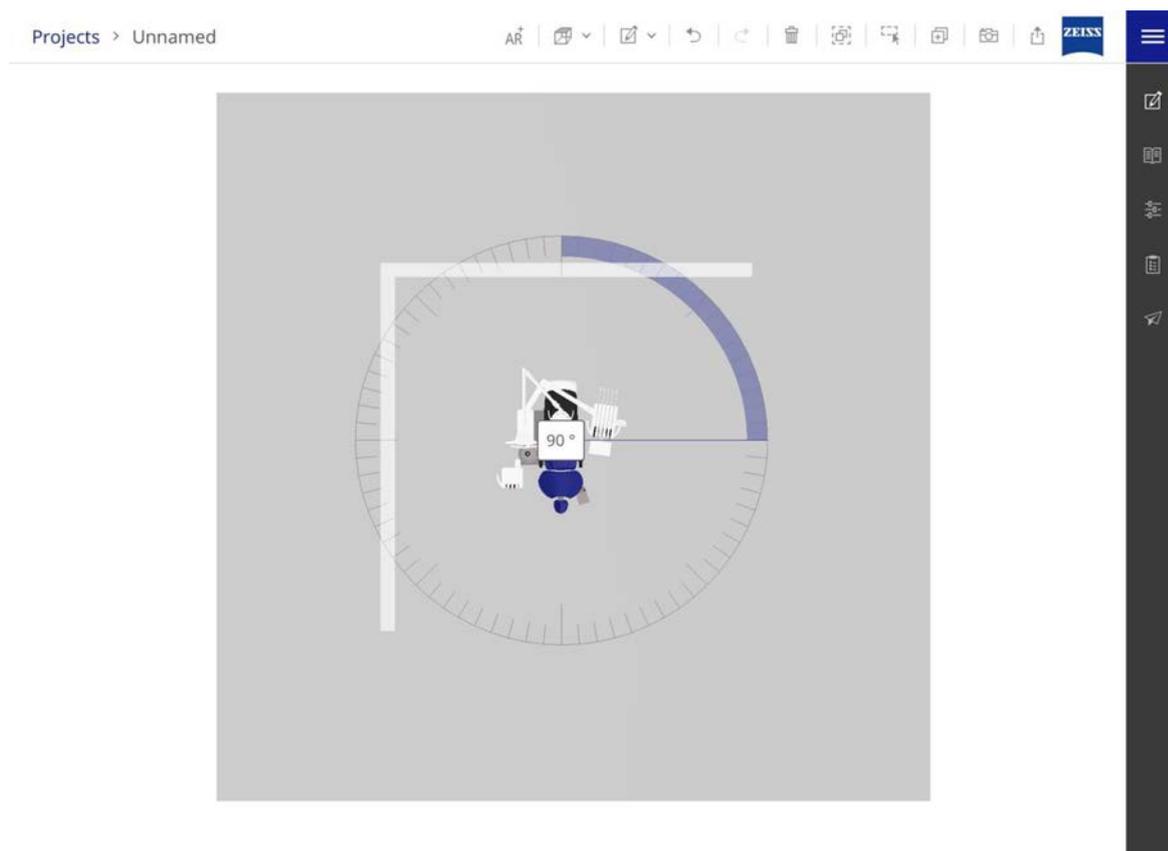


Figure 23: Positioning of an object

Open the *Catalog*  and look for **ZEISS EXTARO 300 floor stand**. It's up to you whether you choose using the search or navigating through the catalog. To go up in the catalog structure, tap .

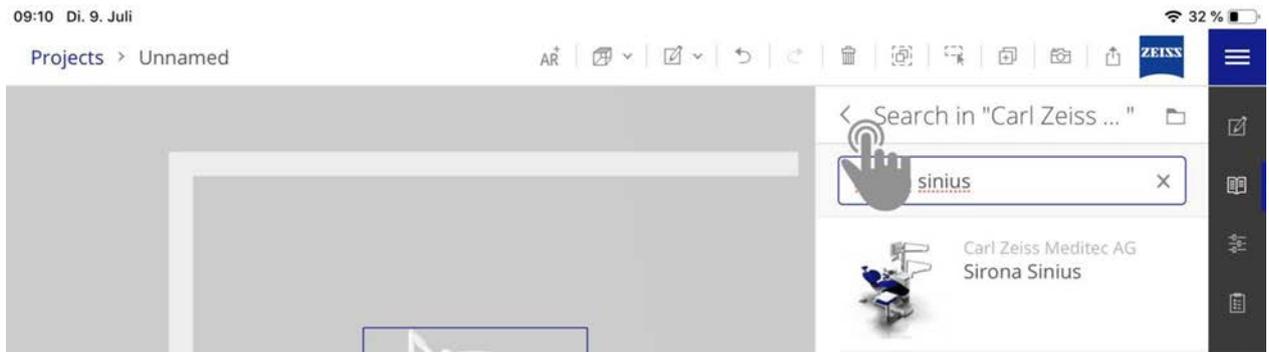


Figure 24: How to use the search function

Arrange **ZEISS EXTARO 300** next to the **Teneo®** treatment center as the following picture shows (1.). Go ahead with the **Doctor 5 white** (2.), **Nurse 2** (3.) and the **Sirona Hugo (chair)** (4.).

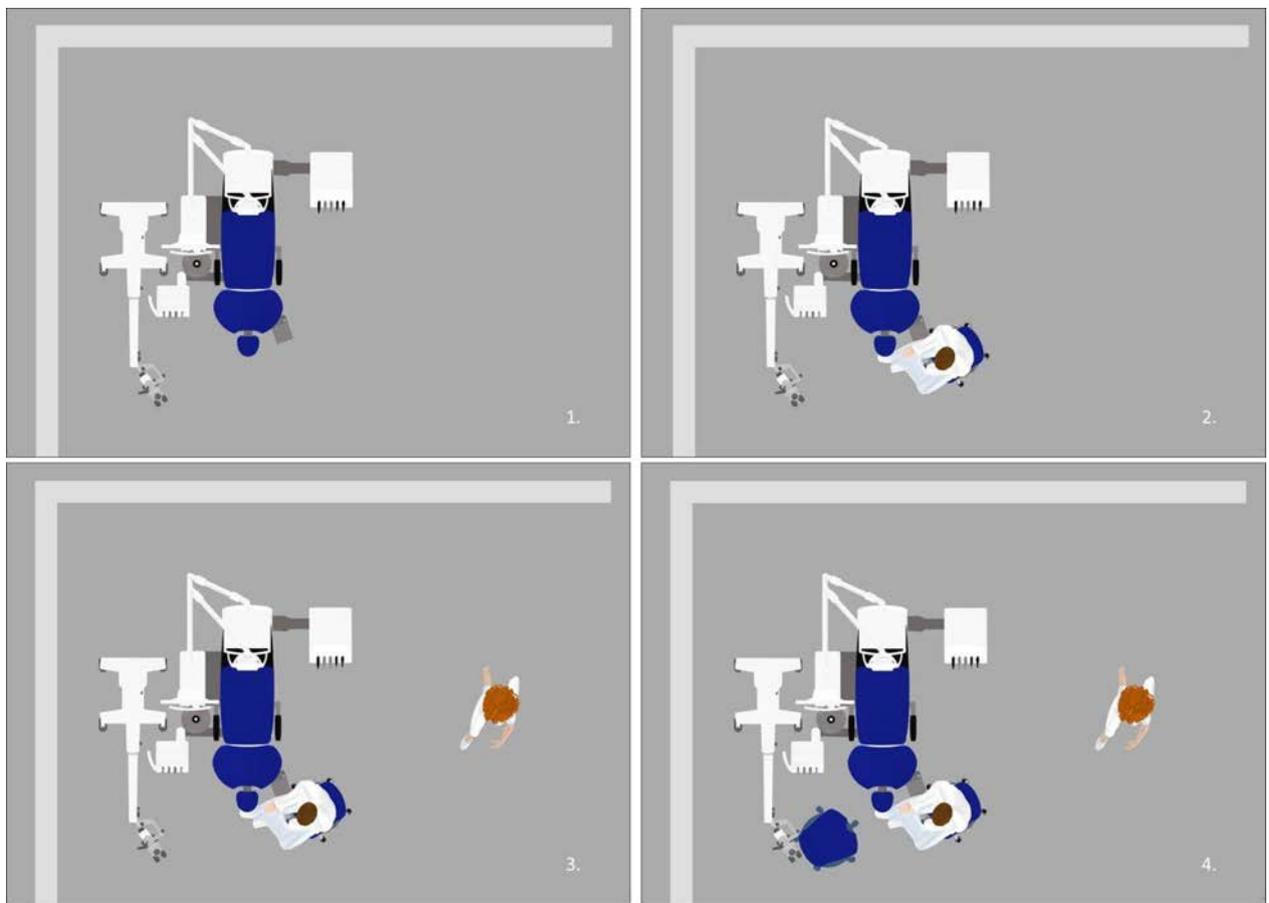


Figure 25: Step by step guide to arrange the objects for a dental facility

Zoom in to adjust the **ZEISS EXTARO 300** arm and microscope with help of the grey interactors. Tap, hold and move it until it's fitting to the eyes of the doctor.

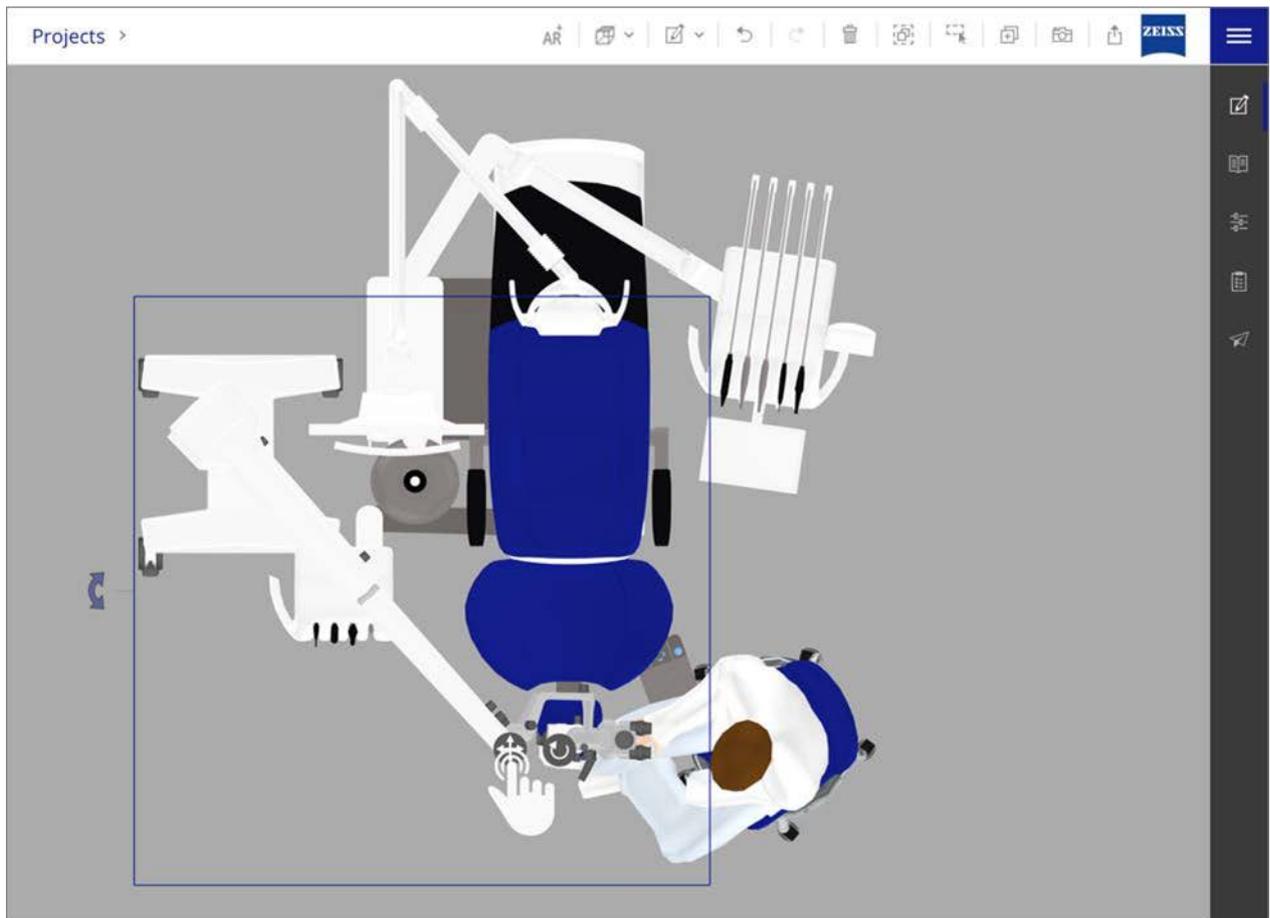


Figure 26: Adjustment of an object via the interactors

Last but not least, finalize the planning with the **Monitor 42" NDS**. After having inserted it into the plan, position it on the wall which measures 5.00. Change to the *Front* view to adjust the distance to the floor, if wanted.



Figure 27: Inserting a monitor on the wall

Open the *Properties*  of the still selected monitor. Change the **On-screen display** to **Dentistry**. Now the planning is complete.

4.2 Sharing media

As learned in the previous chapter, you can easily make images from every point of view by using the snapshot tool. Now we want to directly share the current view as well as the commercial data and the CAD symbols.

Find the best view of your planning. The perspective is up to you.

Tap the *Share* symbol  in the menu bar. A dialog opens which allows you to open your content in another app or send it via e-mail. In this case we choose the second option (*send via e-mail*).

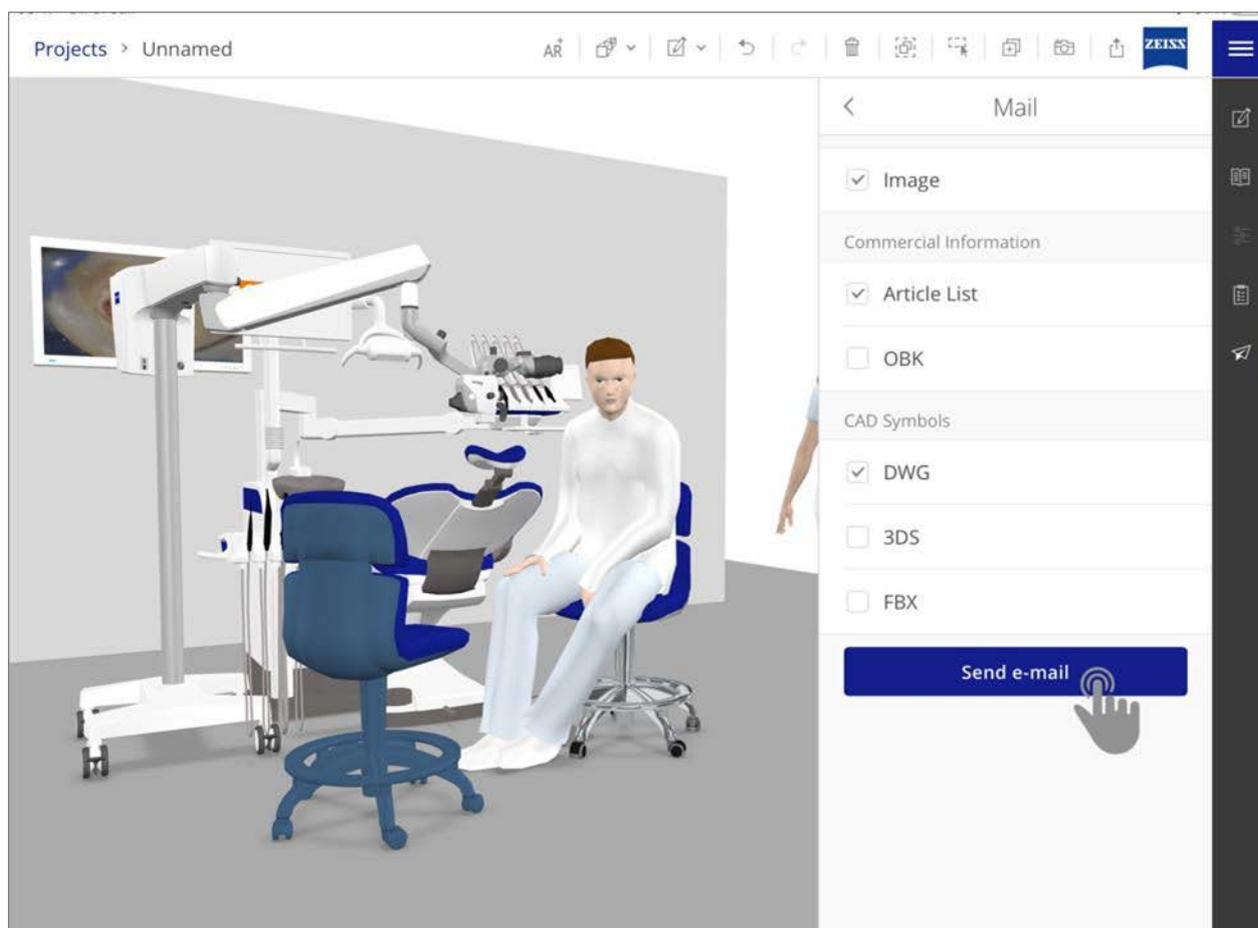


Figure 28: Sharing media via e-mail

Make your choice and confirm with a tap on the send button. Your e-mail program will open. Please enter the recipient(s) and, if desired, add text. The recipient receives an e-mail with the selected content (image, article list) or links to the selected content (OBK, CAD symbols).

OBK files can be shared with your colleagues!

If you send an OBK file, it can be opened on another mobile device.

5 Planning a refractive facility

Start with a product, find a solution. This chapter is about planning a complete refractive facility. We will align the objects needed and share images, CAD data as well as commercial data of the just-created plan.

These are the products that are part of the *Refractive Laser* folder:

- ZEISS VISUMAX 600
- ZEISS VISUMAX 800
- ZEISS VisuMax
- ZEISS MEL 90
- Brumaba bed
- LS Comfort 80
- Surgeon chair
- Generic femtosecond laser
- Generic excimer laser



Figure 29: Example scenario of a refractive facility

5.1 Planning a combination of ZEISS VISUMAX 600/800 and ZEISS MEL 90 with 70° configuration

The image on the previous page is the target image. Please use the wall dimensions and the *Front* view below for further orientation.

These are the products that shall be used plus the name of the folder in which they can be found:

- Room corner (*Extras*)
- ZEISS VISUMAX 600/ VISUMAX 800 (*Refractive Lasers*)
- ZEISS MEL 90 (*Refractive Lasers*)

- LS Comfort 80 combi (*Refractive Lasers*)
- Surgeon chair (*Refractive Lasers*)
- Cabinet (*Equipment from 3rd party vendors*)
- Table (*Equipment from 3rd party vendors*)
- Doctor 3 blue (*People*)
- Nurse 2 (*People*)
- Patient 1 (*People*)
- Monitor (*Equipment from 3rd party vendors*)
- PC monitor (*Equipment from 3rd party vendors*)

Start a new project by tapping **New**  within the menu  and choose the *Top* view.

Tap the *Catalog* symbol  to open the product catalog and select the respective folder. Insert the **room corner** from the sub-folder **Extras**.

Select the wall element by tapping it and open the *Properties* . Adjust the *Width* and *Depth* to 5.00 and change the color to light mint green.

Open the *Catalog*  again to insert the next object. Slide down with your finger to make the search appearing at the top. Enter **ZEISS VISUMAX 600/ VISUMAX 800** and choose the first entry. Position it in the room and rotate it until desired position is reached by tapping and holding the blue rotation interactor when moving your finger.

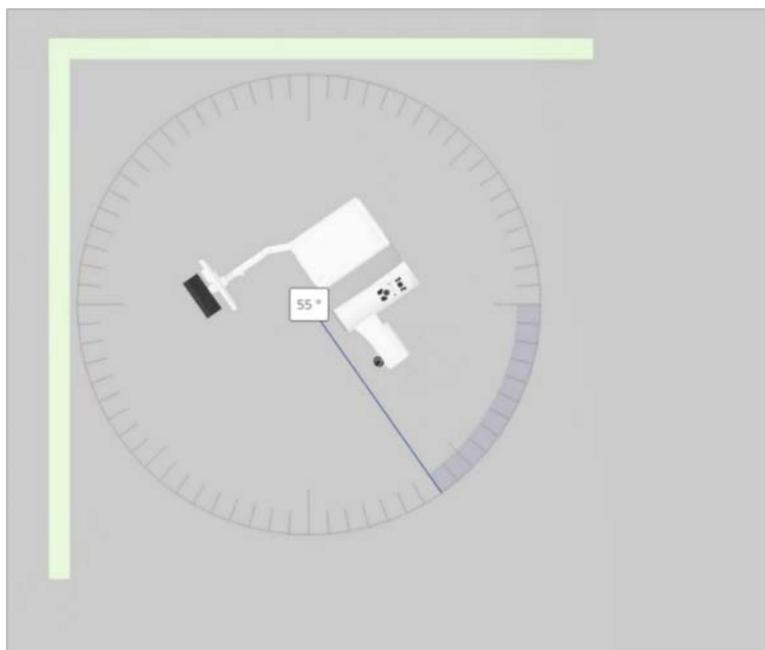


Figure 30: Rotating the object to desired angle

Open the *Catalog*  and look for **ZEISS MEL 90**. It's up to you whether you choose using the search or navigating through the catalog. If you navigate through catalog, find *Refractive Laser* folder, and choose **ZEISS MEL 90**. To go up in the catalog structure, tap .

Arrange **ZEISS MEL 90** next to **ZEISS VISUMAX 600/VISUMAX 800** aligned to the configuration as the following picture shows.

5.2 Planning a combination of ZEISS VisuMax and ZEISS MEL 90 with 90° configuration

The following images show the target scenario, that is explained in this section.



Figure 33: Example scenario in the *Top* view

Please use the wall dimensions and the *Front* view as shown in the image below for further orientation.



Figure 34: Example scenario in the *Front* view

These are the products that shall be used plus the name of the folder in which they can be found:

- Room corner (*Extras*)
- ZEISS VisuMax (*Refractive Lasers*)
- ZEISS MEL 90 (*Refractive Lasers*)
- Surgeon chair (*Refractive Lasers*)
- Cabinet (*Equipment from 3rd party vendors*)
- Table (*Equipment from 3rd party vendors*)
- iPad® (*Equipment from 3rd party vendors*)
- Medifa basket (*Equipment from 3rd party vendors*)
- Doctor 3 blue (*People*)
- Nurse 2 (*People*)
- Patient 1 (*People*)

Start a new project by tapping *New*  within the menu  and choose the *Top* view.

Tap the *Catalog* symbol  to open the product catalog and select the respective folder. Insert the room corner from the sub-folder *Extras*.

Select the wall element by tapping it and open the *Properties* . Adjust the *Width* and *Depth* to 5.00 and change the color to light mint green.

Open the *Catalog*  again to insert the next object. Slide down with your finger to make the search appearing at the top. Enter **ZEISS VisuMax** and choose the first entry. Position it in the room and rotate it 90° by tapping and holding the blue rotation interactor when moving your finger.

Select **ZEISS VisuMax** and open *Properties* . Change the rotation angle from 0 to 90. There is also the option of a 180-rotation angle applicable for the 180° configuration of **ZEISS VisuMax** and **ZEISS MEL 90** combination.

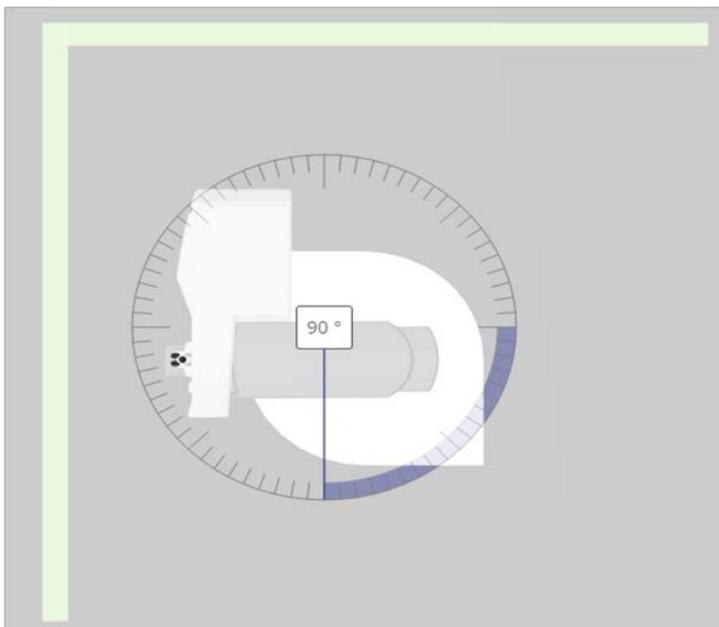


Figure 35: Rotating the object to desired angle

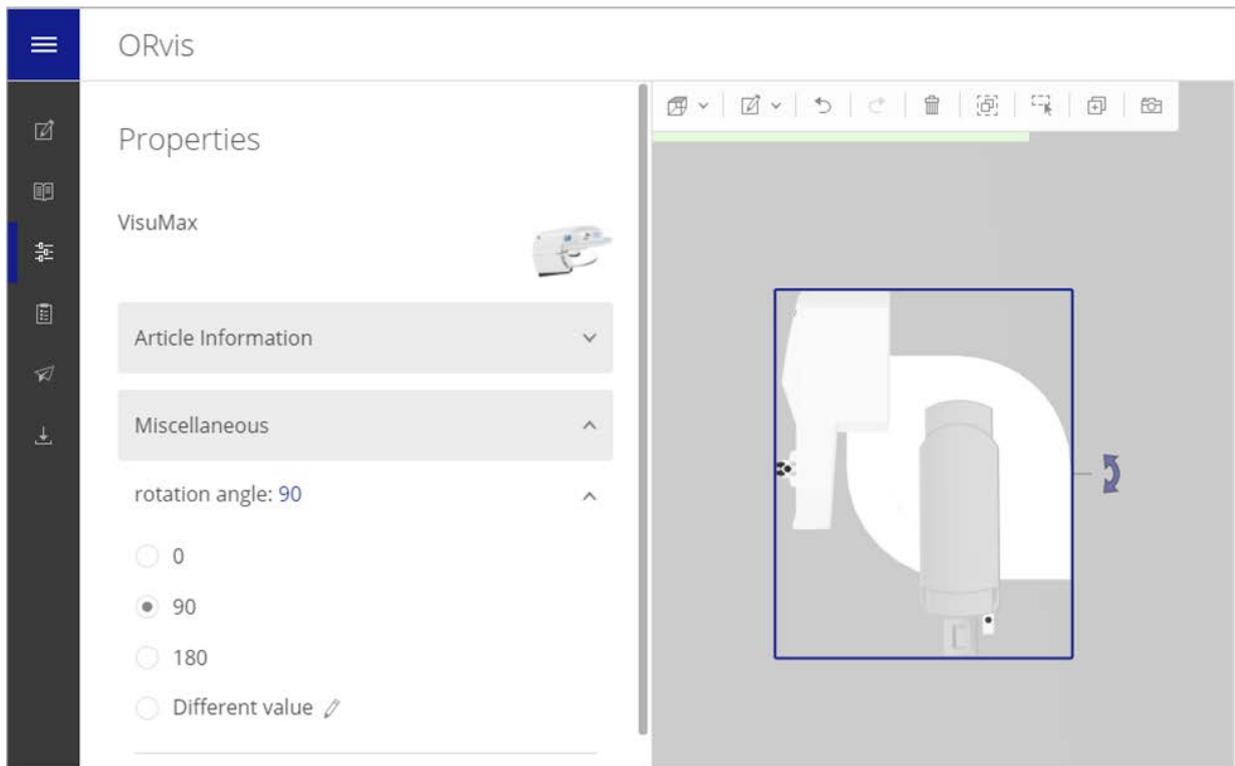


Figure 36: Overview of the *Properties*

In order to check the safety area and the border of swiveling area change the safety area from – to 90°. There is also the option of a 180° safety area, applicable for the 180° configuration of **ZEISS VisuMax** and **ZEISS MEL 90** combination.

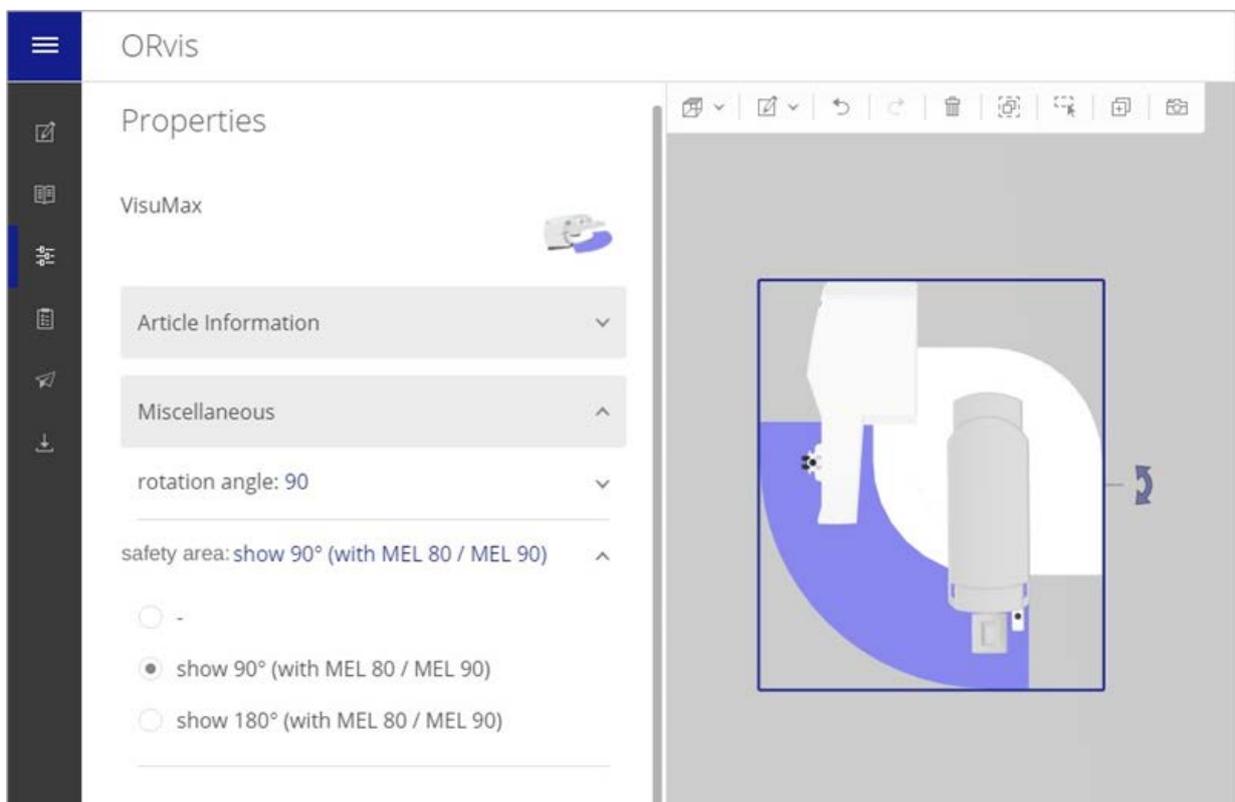


Figure 37: Overview of *Properties* with selected safety area

Open the *Catalog*  and look for **ZEISS MEL 90**. It's up to you whether you choose using the search or navigating through the catalog. If you navigate through catalog, find *Refractive Laser* folder, and choose **ZEISS MEL 90**. To go up in the catalog structure, tap .

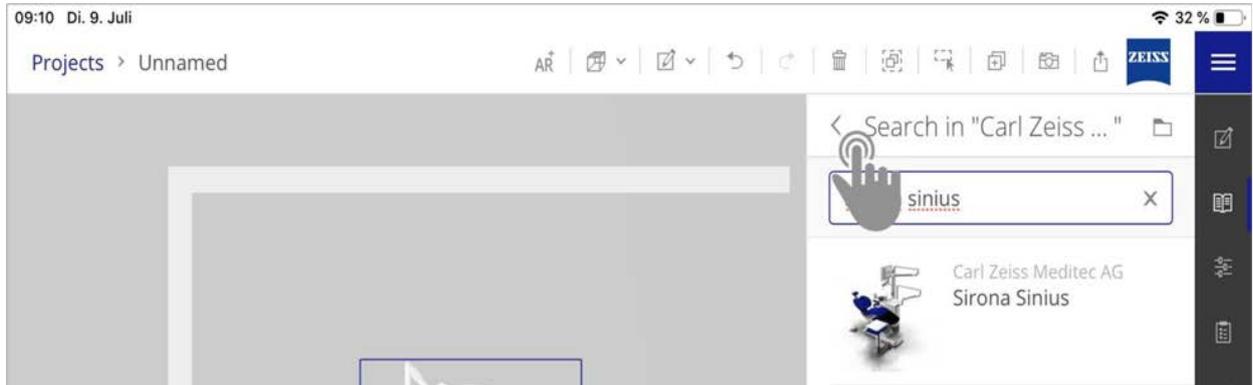


Figure 38: Find objects by search function or through the catalog

Open the *Catalog*  and look for **Equipment from 3rd party vendors** folder. Open this folder and choose the following equipment one by one: **cabinet, table, iPad®** and **Medifa basket**.

Therefore, arrange **ZEISS MEL 90** next to **ZEISS VisuMax** aligned to the 90° configuration as the following picture shows (1.). Next add the **surgeon chair** (2.), **doctor 3 blue, nurse 2** and **patient 1** (3.) and the **cabinet, table, iPad®** and **Medifa basket** (4.).

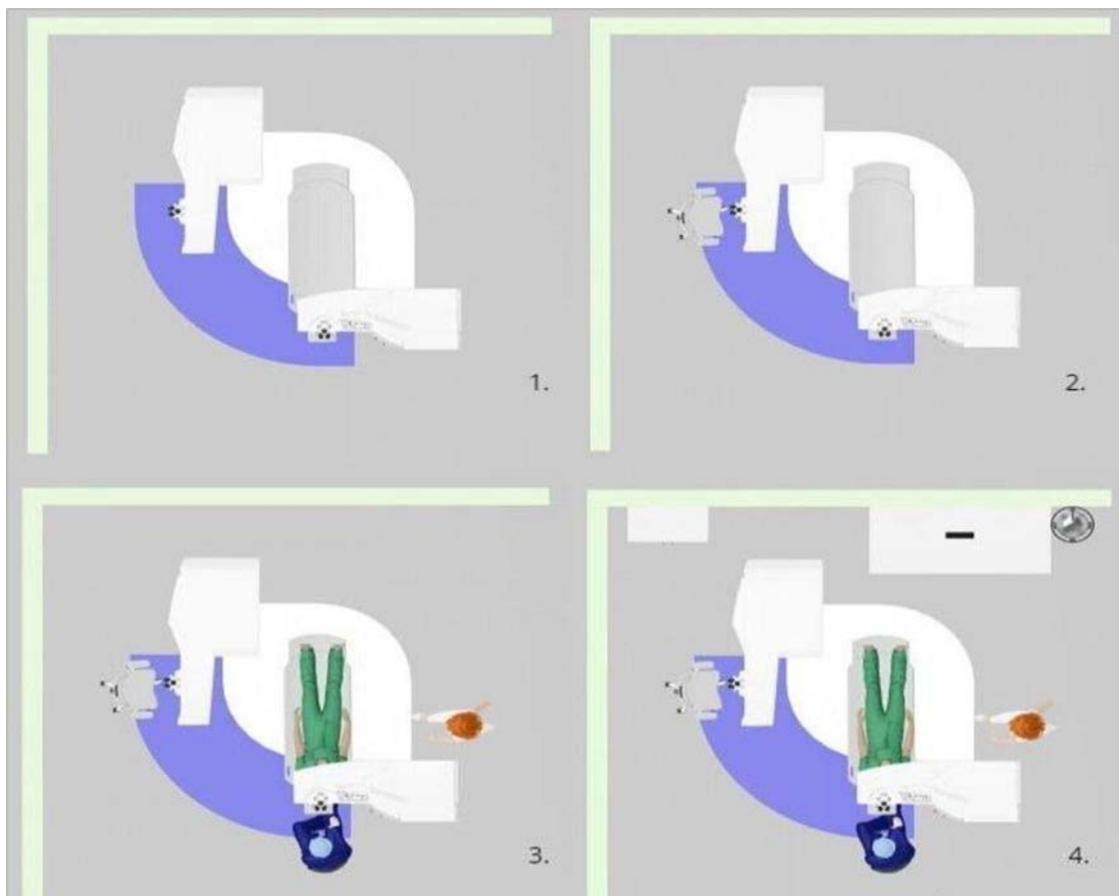


Figure 39: Step by step guidance to arrange the objects for a refractive facility

5.3 Inserting a sample room

When starting ZEISS ORvis the first time, a new project is automatically initiated. If you have previously planned with the app, the last opened project will be displayed. To start a new project, select the entry "New" via the menu. In addition to an empty planning, you can also load a sample here.

Samples 8 to 11 show the following refractive facilities:

- Sample 8 shows the combination of ZEISS VisuMax and ZEISS MEL 90 with the 90° configuration.
- Sample 9 shows the combination of ZEISS VisuMax and ZEISS MEL 90 with the 180° configuration.
- Sample 10 shows the combination of ZEISS VISUMAX 800 and ZEISS MEL 90 configuration.
- Sample 11 shows ZEISS VISUMAX 800 as a standalone solution.

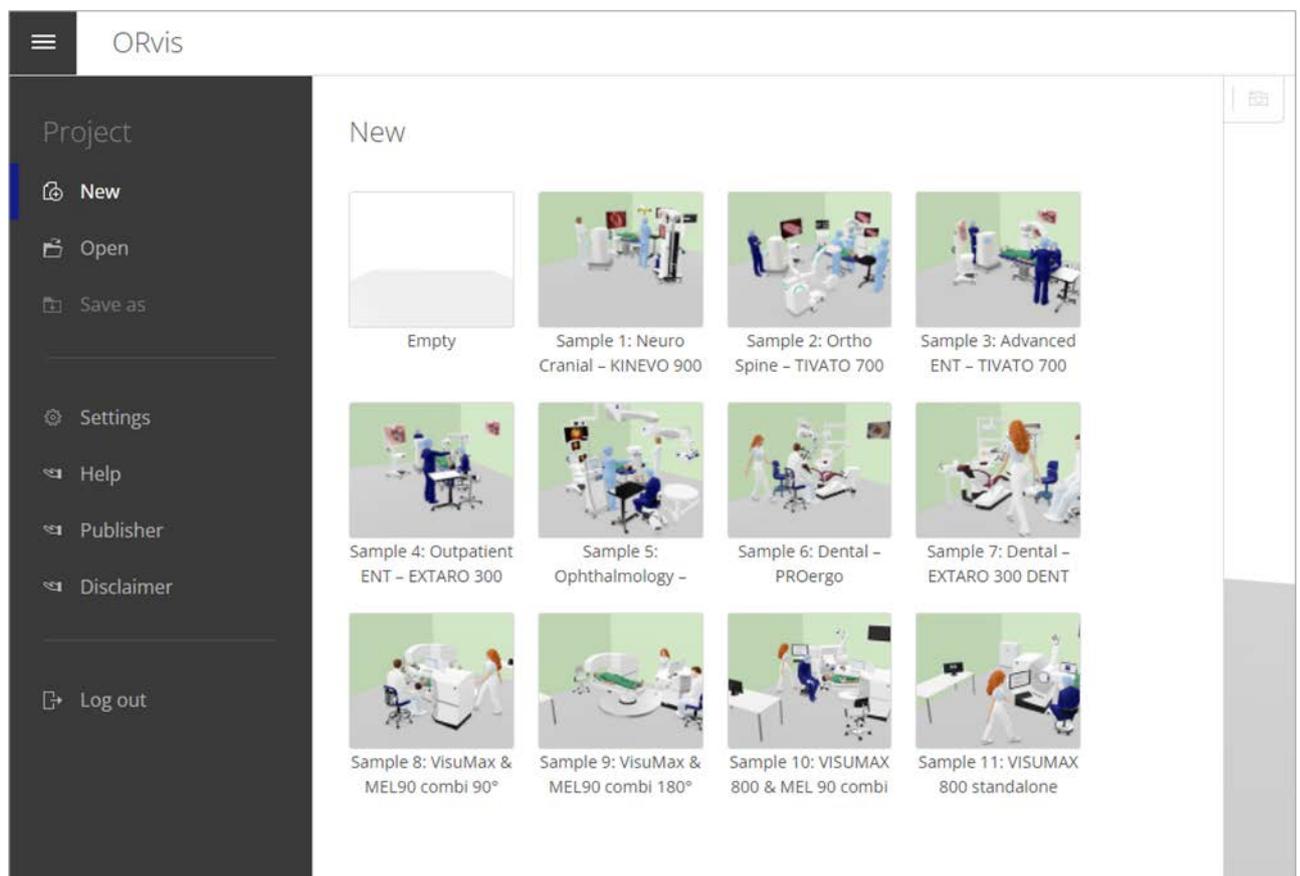


Figure 40: Overview of all sample scenarios



Figure 41: Sample scenarios for refractive facilities

5.4 Presales Checklist and sharing media

Presales Checklist of **ZEISS VisuMax**, **ZEISS VISUMAX 600/VISUMAX 800** and **ZEISS MEL 90** is available via a link. To open it, select the entry "Help" via the menu and choose the **Presales Checklist** entry. The document will open up in a SharePoint link and there will be the option to download the file.

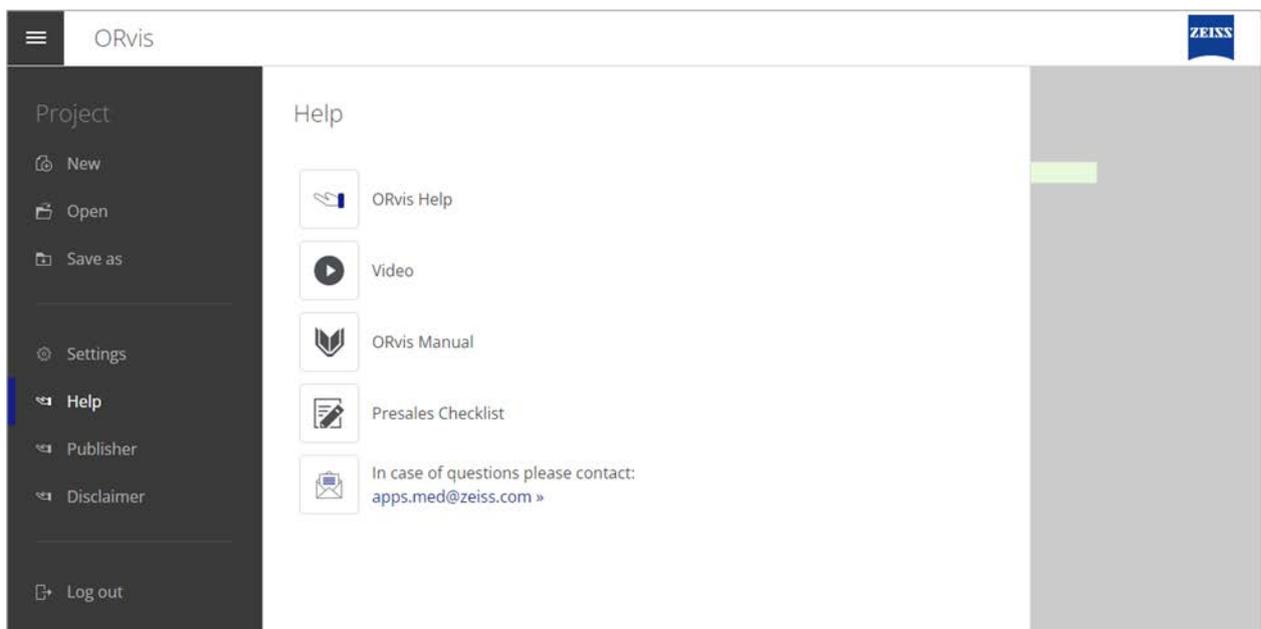


Figure 42: Help section within the menu

In order to share the current view as well as the commercial data and the CAD symbols, tap the *Share* symbol  in the menu bar. A dialog opens which allows you to open your content in another app or send it via e-mail. In this case we choose the second option (*send via e-mail*).

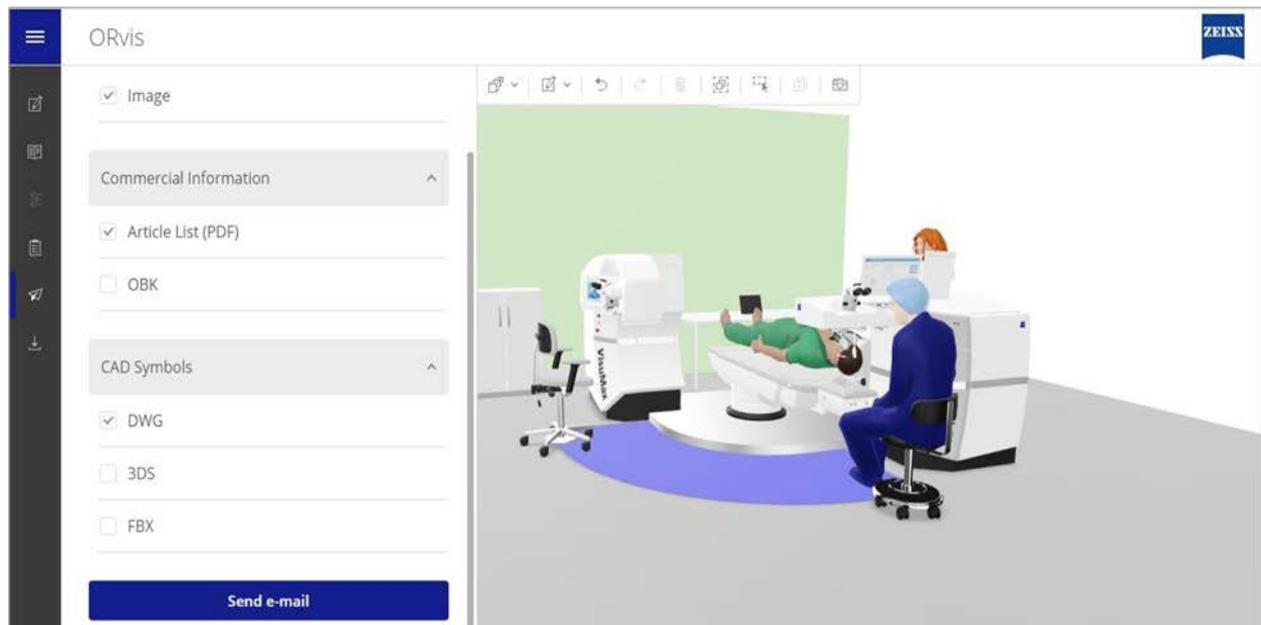


Figure 43: Sharing options within the menu

Make your choice and confirm with a tap on the send button. Your e-mail program will open. Please enter the recipient(s) and, if desired, add text. The recipient receives an e-mail with the selected content (image, article list) or links to the selected content (OBK, CAD symbols).

6 Working with floor plans

Does the desired product fit in the existing space? A feeling of space can be difficult to convey. And those who consult in space planning can gain a great deal from being able to visualize the size of a space. The best way to do this is with the customer's own floor plan.

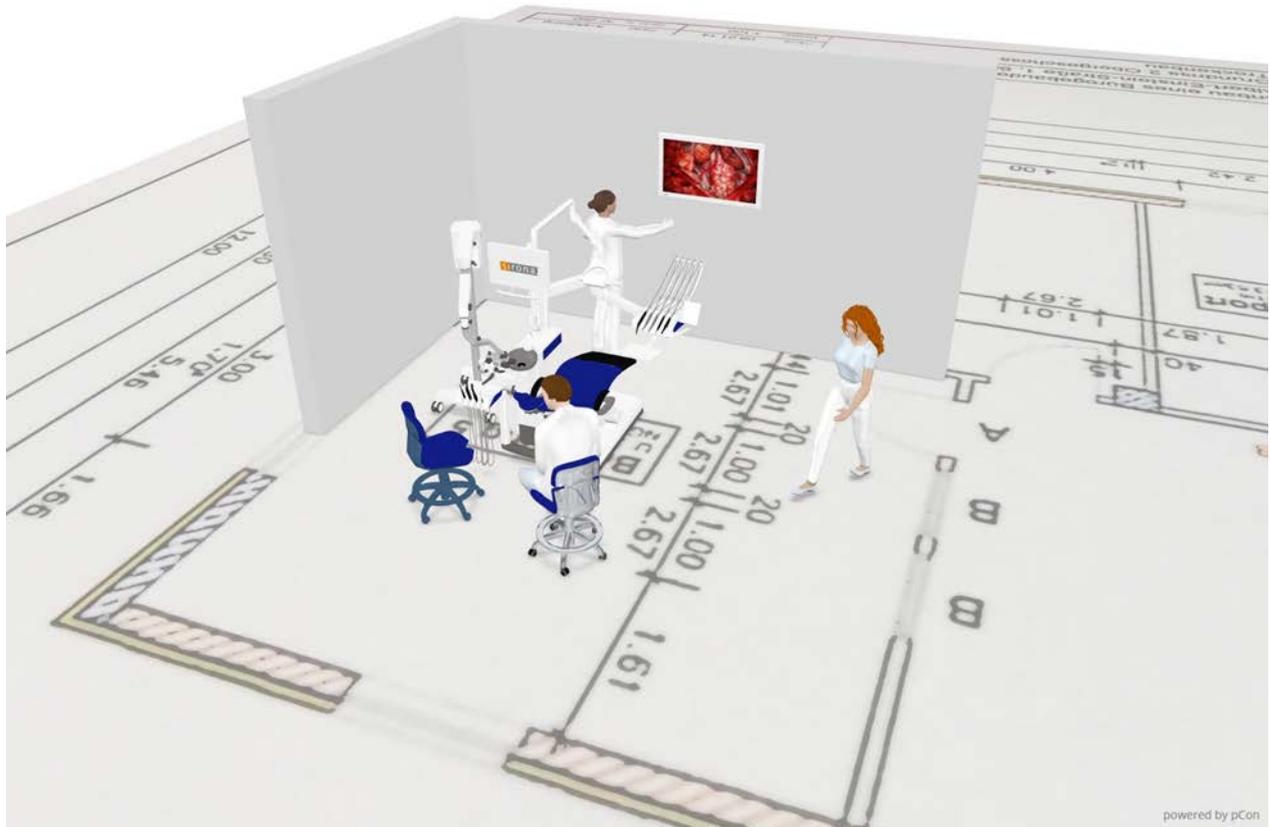


Figure 44: Example scenario with floor plan

6.1 Inserting and scaling of floor plans in ZEISS ORvis

Start a new project by tapping **New**  within the menu .

Tap the **Workspace** icon  in the top menu and select **Floor Plan**. A dialog with the following options will appear: **Take Photo**, **Photo Library** and **Browse**. Choose the first option.

ZEISS ORvis asks to access your camera. Agree with **OK**.

Take a picture of the floor plan in the annex (page 47). Check on the quality of your photo and, if needed, have another try. If it fits, tap **Use Photo**.

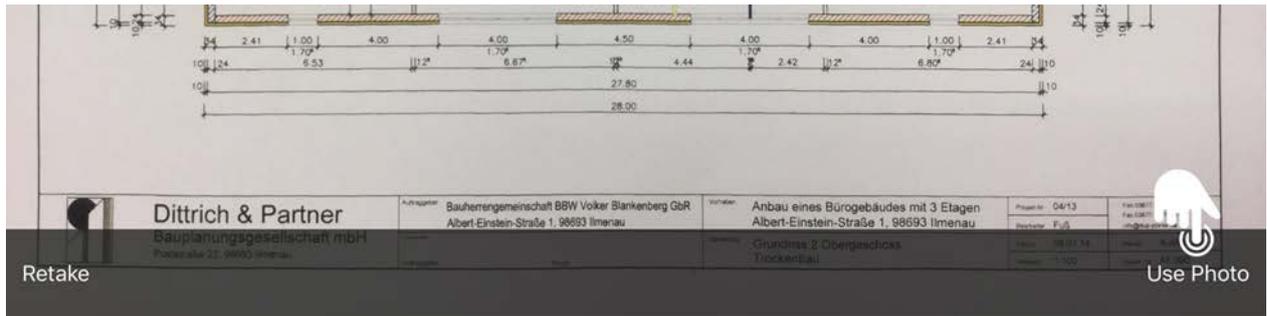


Figure 45: Selection of the floor plan by taking a photo

Now we need to scale the plan. Select the first point of the given line and put it on a prominent point in the planning, ideally a measuring point (left). Then take the other end of the line and do the same. The magnifying glass helps to align accurately (right). In addition, you can zoom in and out as you please. Tap next if the scaling is done.

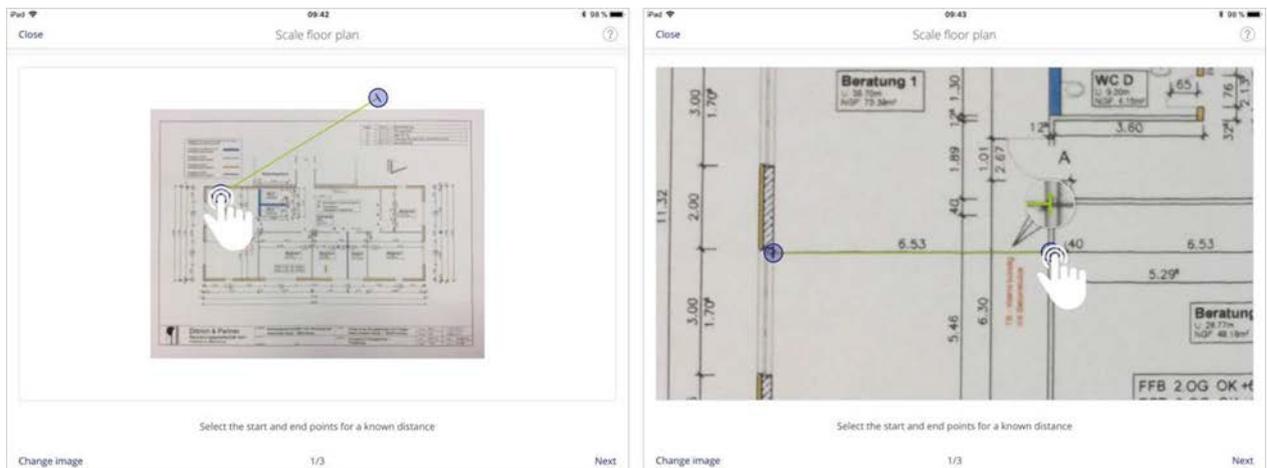


Figure 46: Scaling the selected floor plan

Enter the length of the set line and confirm with return.

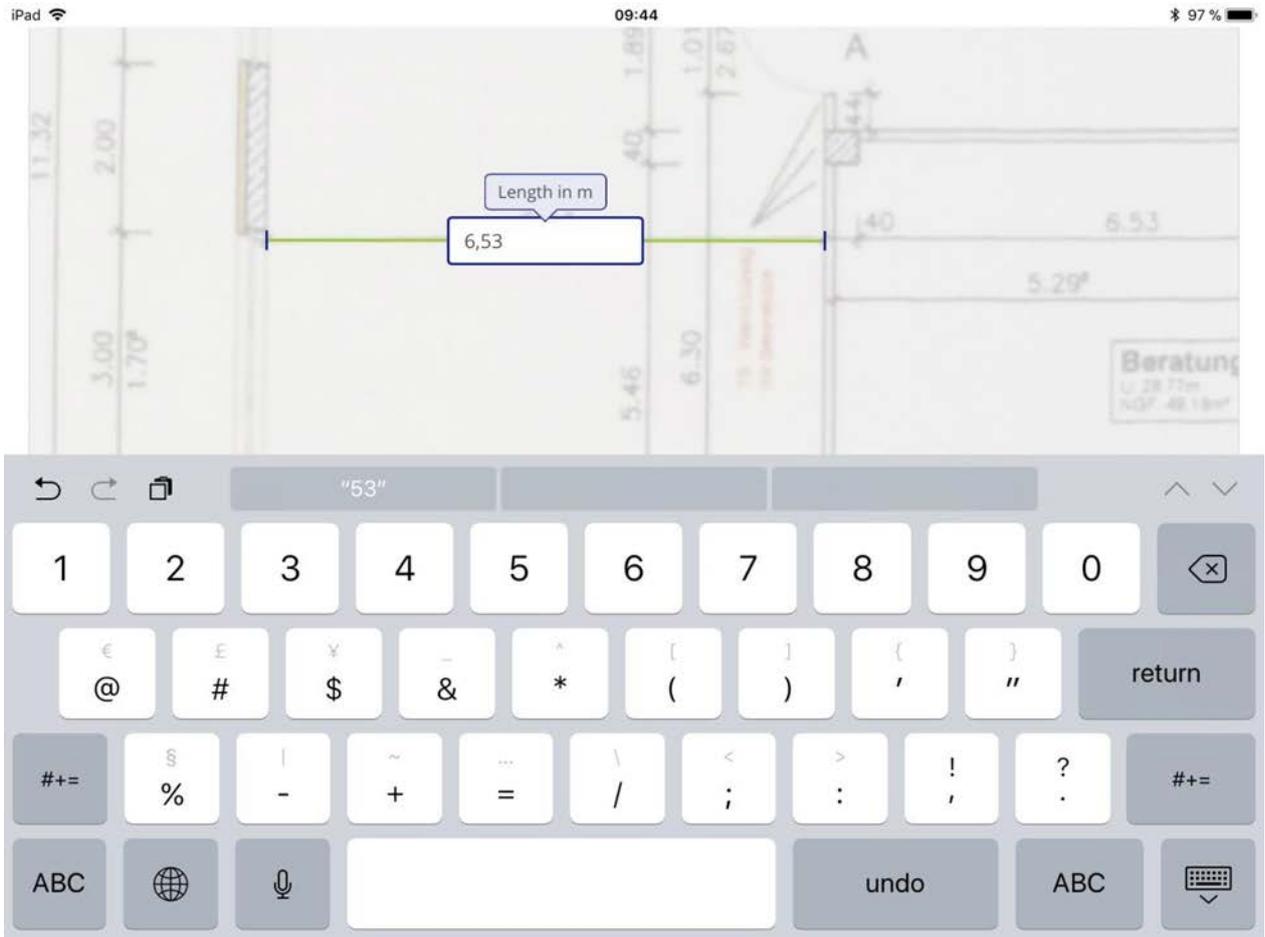
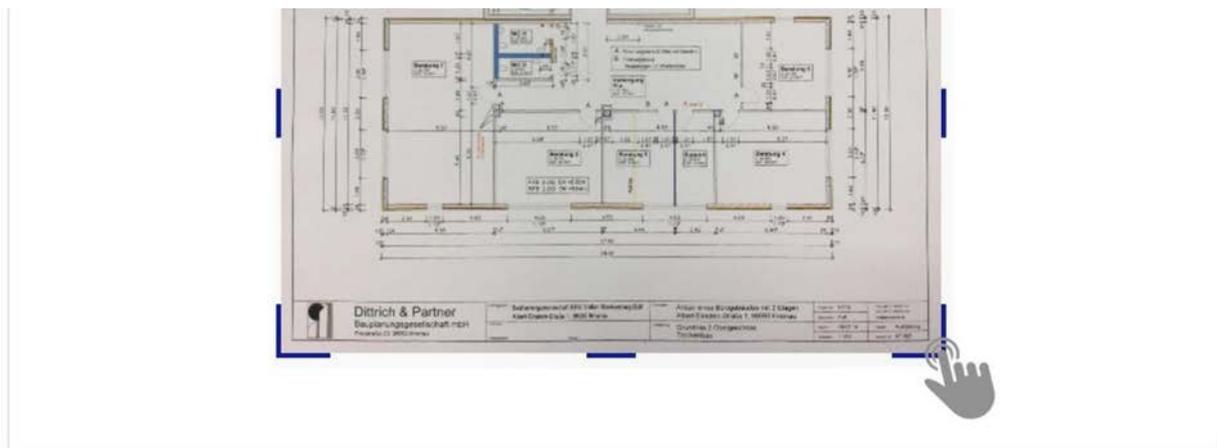


Figure 47: Entering the length of the set line

Select the image area which should be visible when planning. If the section becomes too big, ZEISS ORvis will point out with a selection window marked in red.



Select image area

Back

3/3

Done

Figure 48: Selection field of the floor plan

Tap *Done*. The floor plan is now part of your project and can be adjusted as needed (opacity, contrast, brightness). A later adjustment is possible, too. To do so, tap the *Workspace*  again and select the *Edit* icon  next to the entry *Floor Plan*.

In order to get a better contrast between the bright medical devices and the floor plan we adjust the contrast to 0% and the brightness to 80%. Simply slide the corresponding interactor.

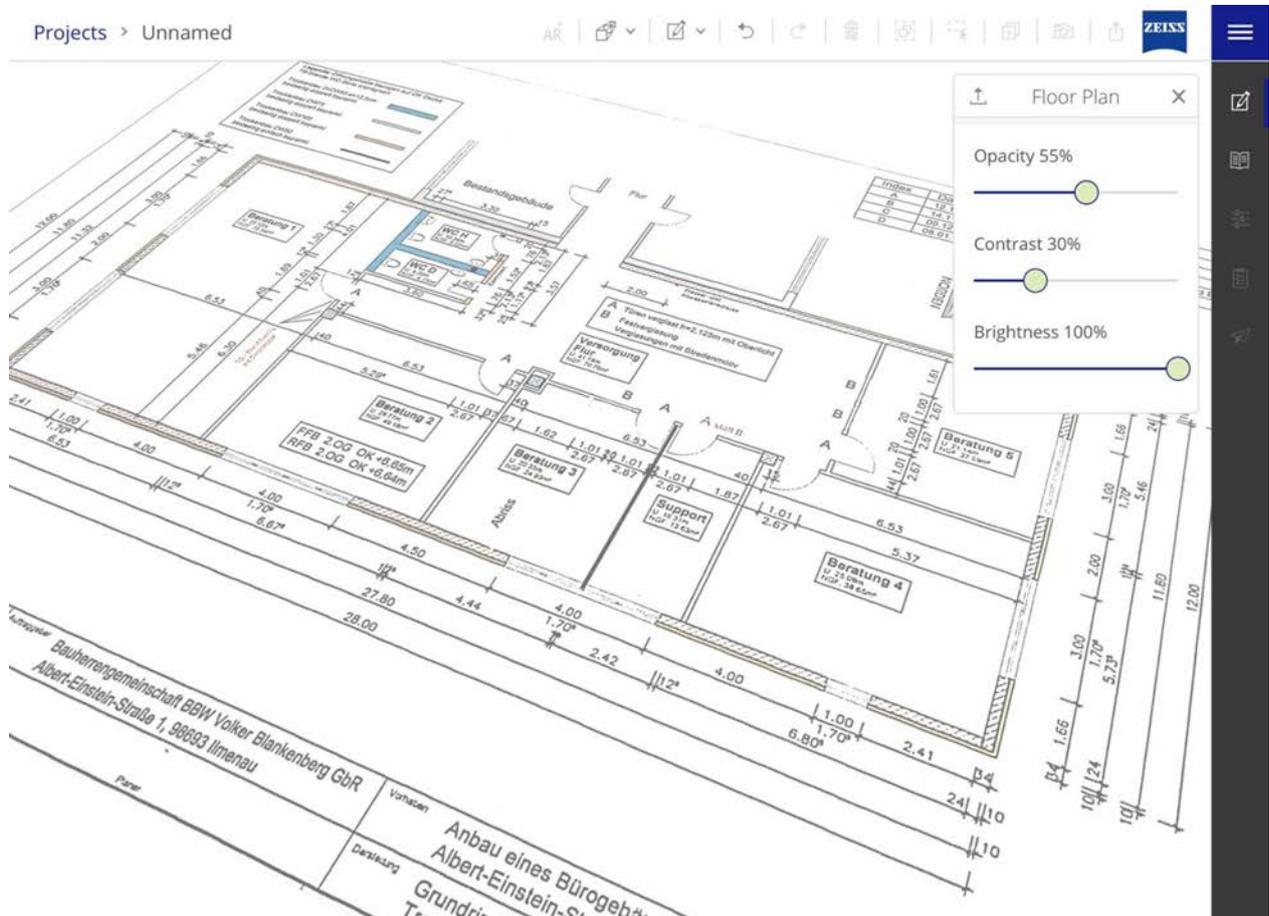


Figure 49: Options for floor plan adjustments

6.2 Placing objects on the floor plan

Open the *Catalog*  to insert the objects listed below. It's up to you whether you choose using the search or navigating through the catalog. The objects shall be placed in the room "Beratung 5" as marked in the picture below.

- ZEISS EXTARO 300 floor stand (*Dentistry*)
- Treatment unit (*Equipment from 3rd party vendors*)
- Chair for dentist (*Equipment from 3rd party vendors*)
- Monitor 42" NDS (*Equipment from 3rd party vendors*)
- Doctor 5 white, Nurse 2 and Nurse 3 (*People*)

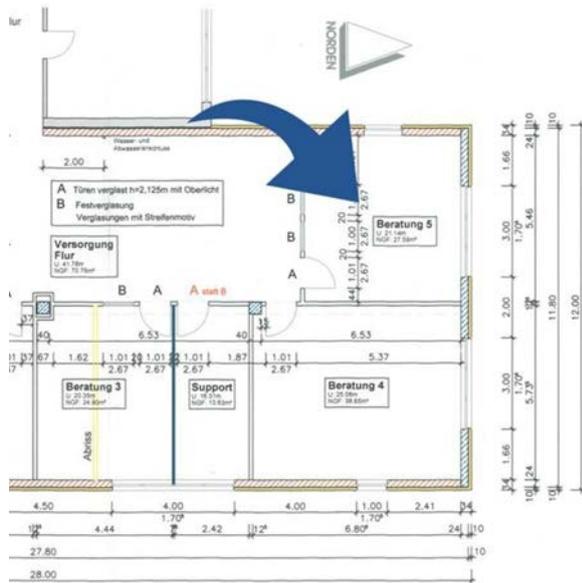


Figure 50: Selected room within the floor plan

If not done yet, change to the top view and arrange the objects as in the following picture respectively in the previous task (Planning a dental facility).

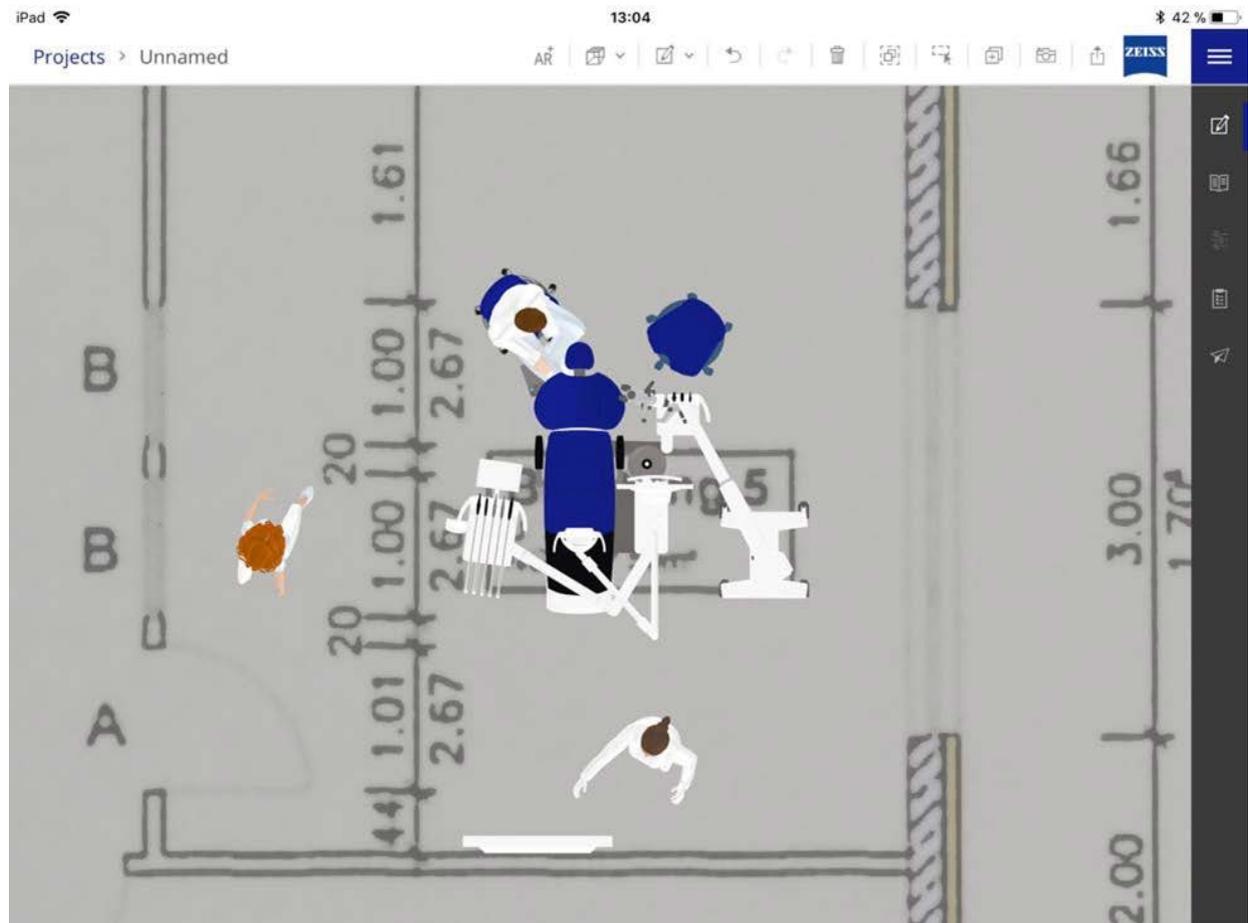


Figure 51: Sample scenario on a floor plan

Change to *perspective* and navigate through your planning. Do the products fit the room? Any problem with imagining the walls? Add a wall corner (product catalog, *extras*), adjust the measurements, and place it onto the floor plan.

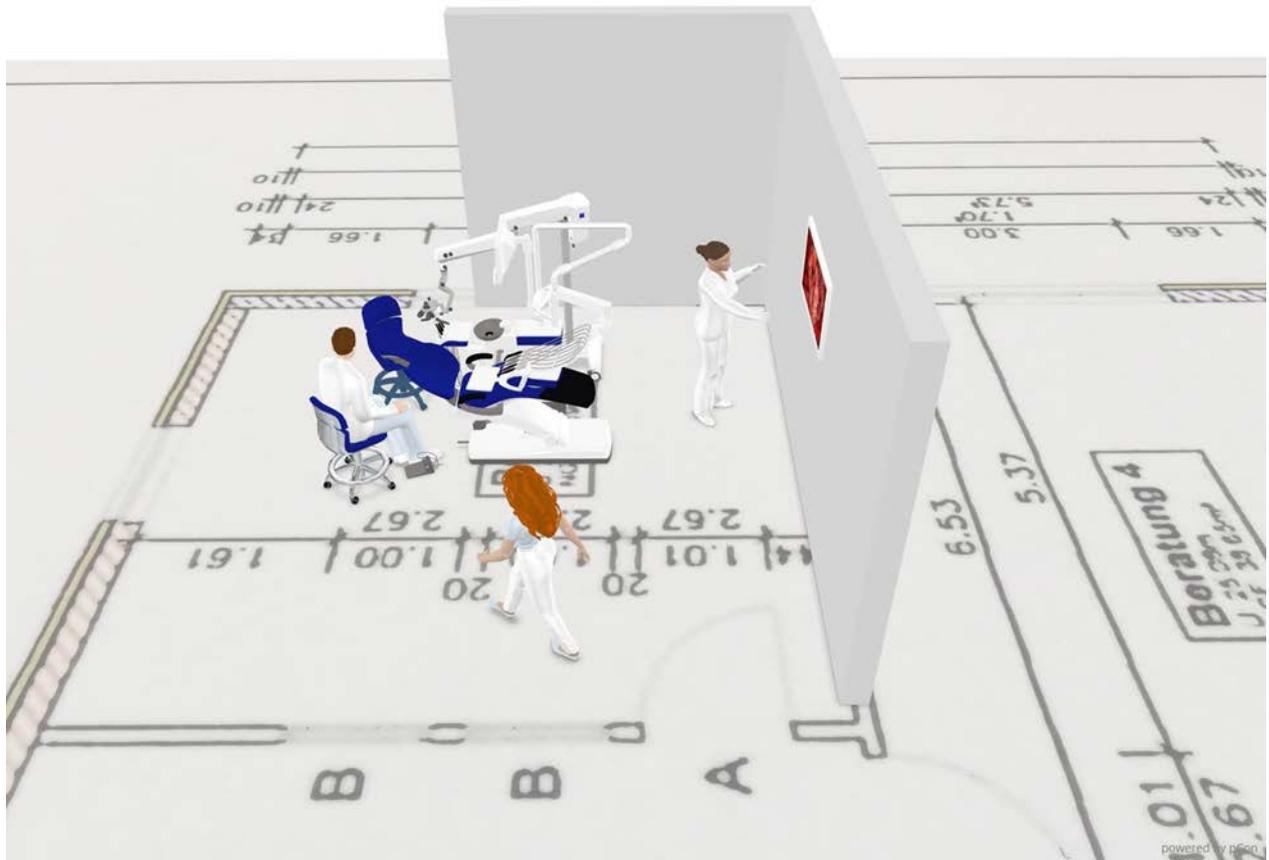


Figure 52: Adjustments on a scenario after adding the floor plan

6.3 From required products to customized solutions

Find out if there are any room restrictions to the space. What about the distance between the monitor on the wall and the TENEO® treatment center? Or probably the arm of **ZEISS EXTARO 300** is not able to swing freely, but collides with any other product? Or you simply want to have another variant of **ZEISS EXTARO 300**?

Let's try an alternative. Tap the *Menu* ≡ and choose *save as copy*. Enter a project name and confirm. Now you are working with a copy of variant 1.

Tap **ZEISS EXTARO 300** and delete it by tapping *Delete* 🗑️ in the menu.

Open the *Catalog* 📖 and choose **ZEISS EXTARO 300 ceiling mount** and place it into the corner, where the floor version has been placed before. Does it fit better?



Figure 53: Hiding the floor plan with the invisible function

Tap the *Workspace*  and select invisible. The floor plan is hidden but can always be displayed again the same way. Now that the focus is on the product, it's a good chance to start with product consulting. Zoom to details, play around with the degrees of inverse kinematic to impress your customers. Finally, create images (see chapter 3.2) and share the just planned content (see chapter 4.2).

7 Consult and convince

When it comes to professional consulting, a good storytelling and a convincing presentation makes the difference.

Keep your audience's attention with impressive presentations in augmented reality or create emotional mood boards by composing images, texts, and arrangements of objects.



Figure 54: Example presentation for consulting purposes

7.1 Presenting in Augmented Reality (AR)

The integrated AR viewer lets you present and configure virtual products in real surroundings – leaving a lasting impression.

To bring your solution into augmented reality, tap the *Augmented Reality* **AR** icon in the top menu bar. The device camera is started. We do so with the following **ZEISS KINEVO 900** setting.

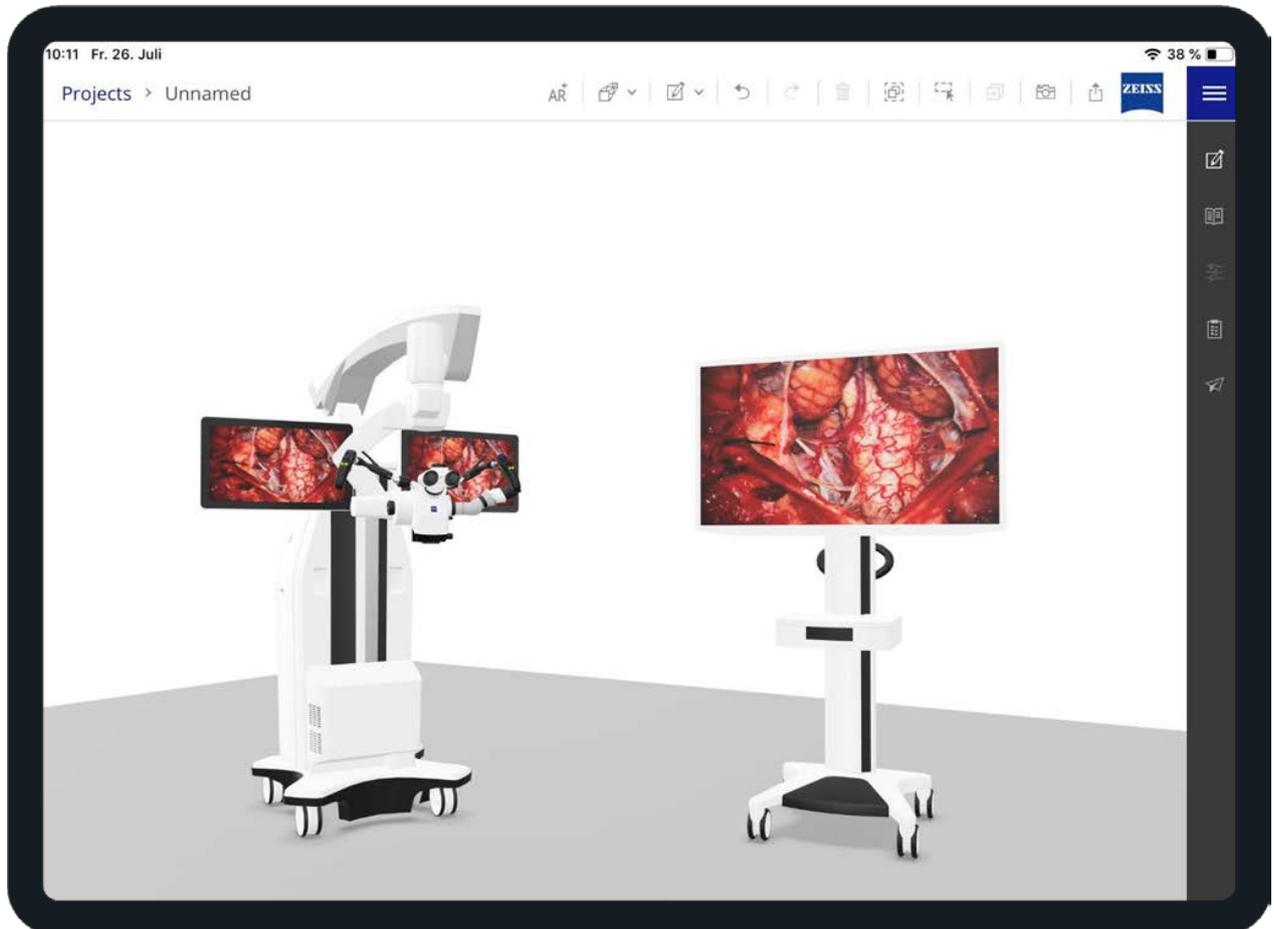


Figure 55: Example devices in AR+ mode

Follow the instructions at the bottom "*Please film the floor and move your device sideways.*" Your planning solution will be quickly integrated into the living environment.

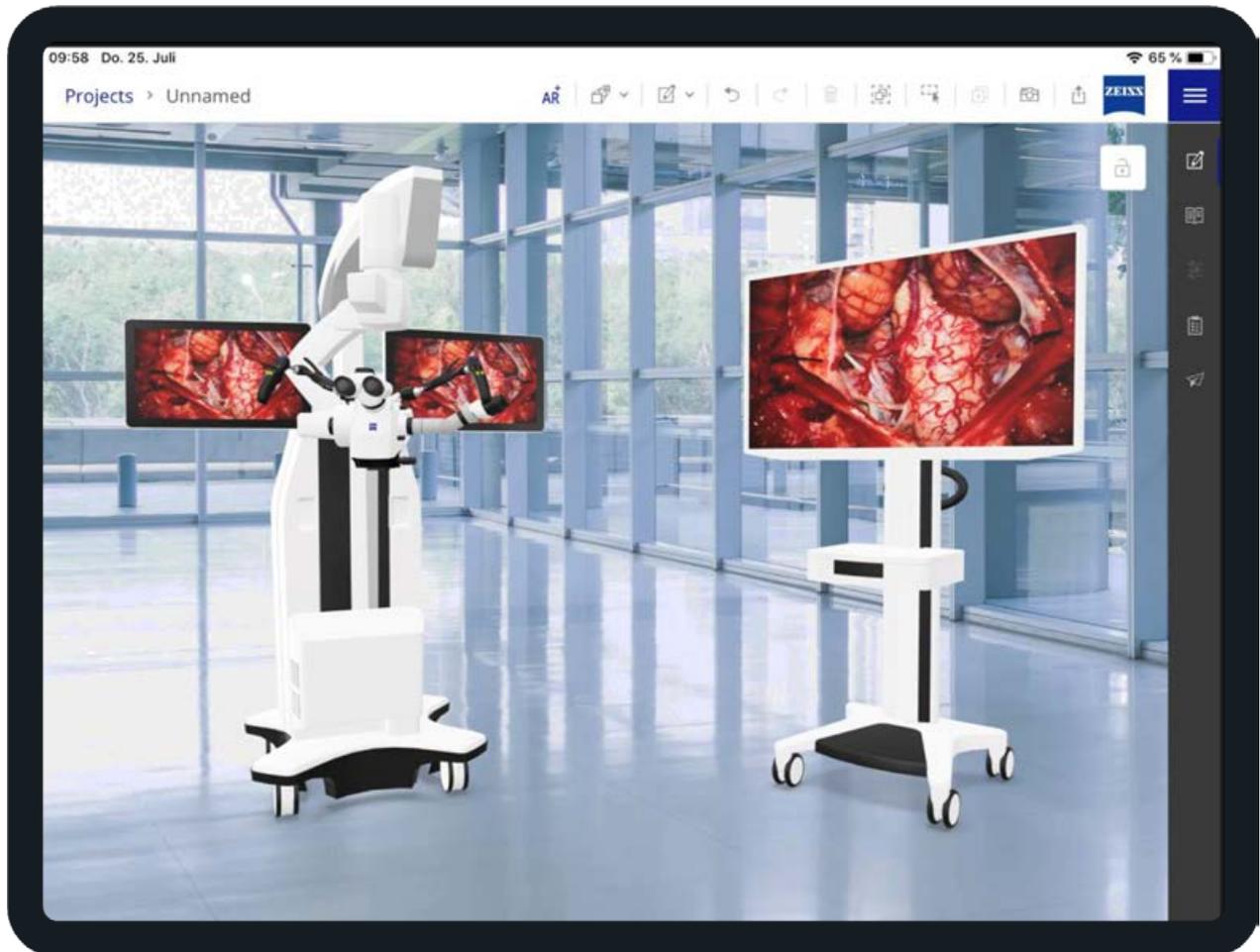


Figure 56: Example devices in AR+ mode embedded in the real environment

Now you can position the setting with the known interactions (see 1.4), physically move around it (see 1.3), and even configure it in real time with the *Properties* icon  to showcase alternative solutions (see chapter 2).

How does the product resp. product solution work for your counterpart? Take a snapshot and share it directly by means of the appropriate icons from the menu (see 3.2).

Small but helpful **hint**: by clicking the locking icon, the scene (i.e., the image of the environment) will freeze.



Please note: Do not take photos of patients when taking snapshots!

7.2 Creating a layout with Keynote®

Please note, for the following task, use additional free applications such as Keynote®, Notes® or PowerPoint® to create layout pages for presentations.

Open the Keynote® app (alternatively Notes® or PowerPoint®) and start a new presentation.

Name the presentation (e.g. "ZEISS EXTARO 300") and add content from your camera roll by tapping the plus symbol +. We choose the ZEISS logo first.

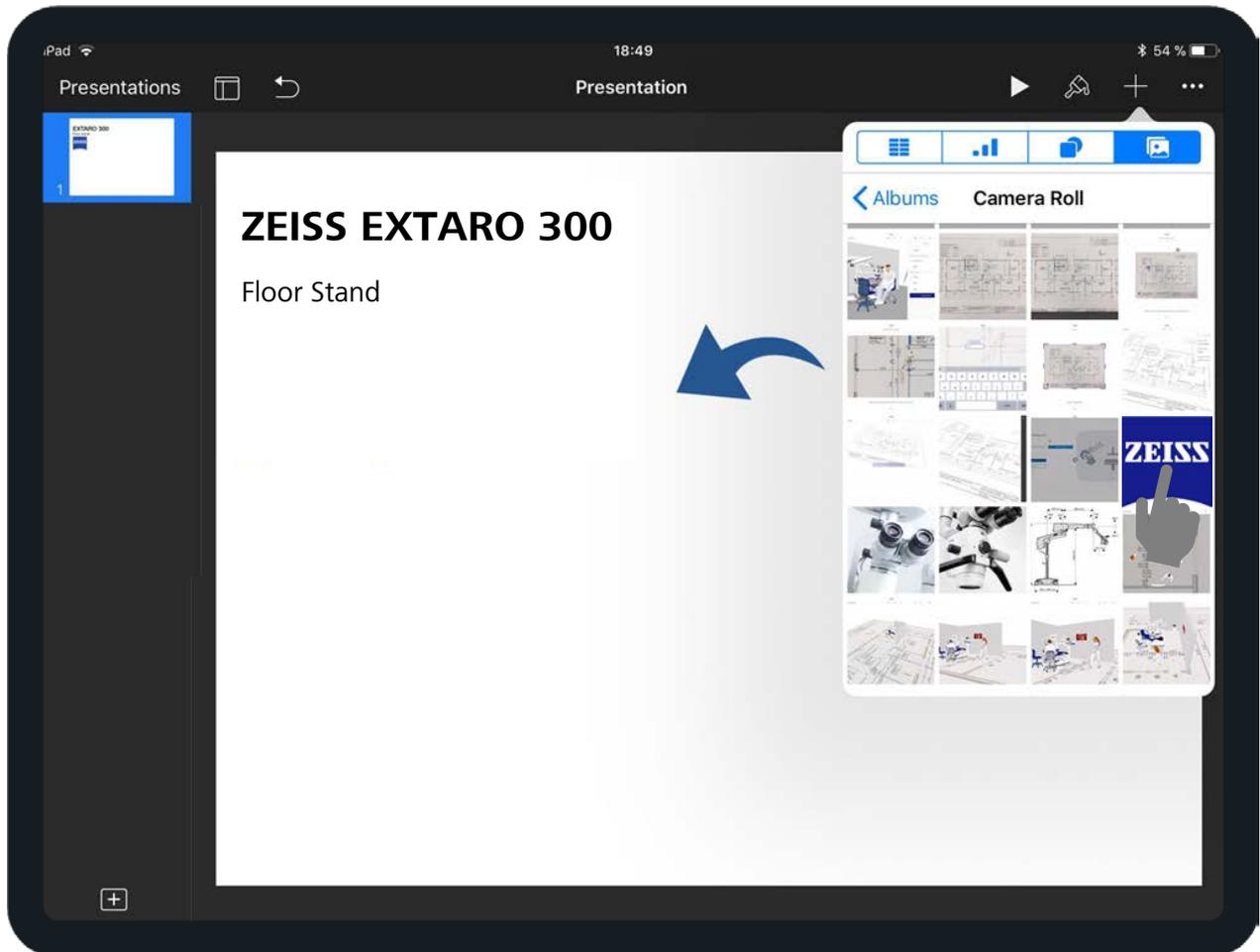


Figure 57: Creating an example presentation for consulting purposes

Move the element to the desired position on your layout page and adjust the size by using the interactors.

Depending on the focus of your presentation, you can insert detailed product images, drawings including dimensions as well as pictures from webpages.

Now use the snapshots you have made in the previous tasks and design your own presentation layout!

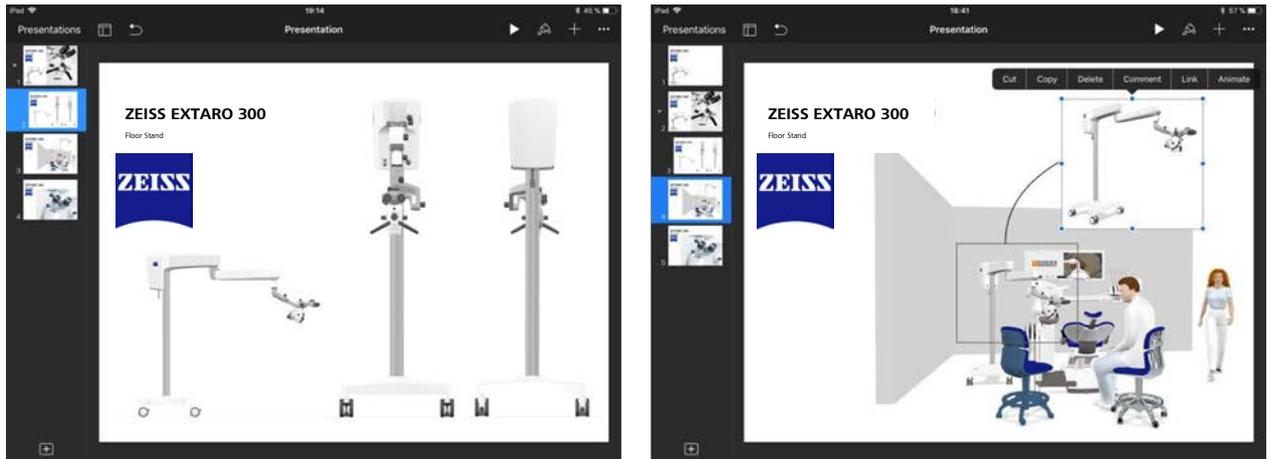


Figure 58: Adjusting the presentation with pictures done with ZEISS ORvis

7.3 Sharing Keynote® presentations

After finishing your layout, make it accessible to your partner or customer by using the share, export or print functions of the respective tool.

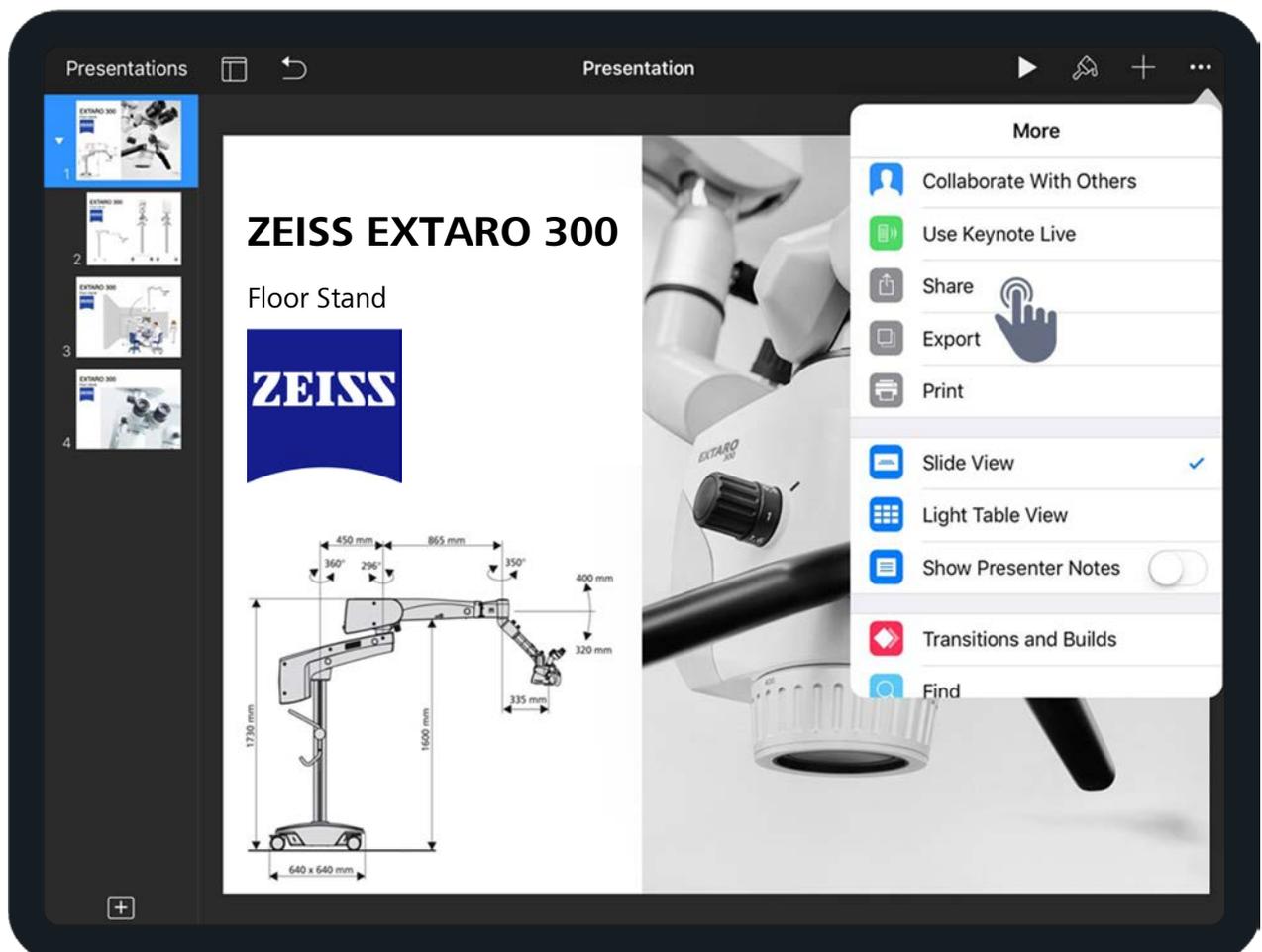


Figure 59: Sharing the presentation from the iPad

Annex – Floor plan

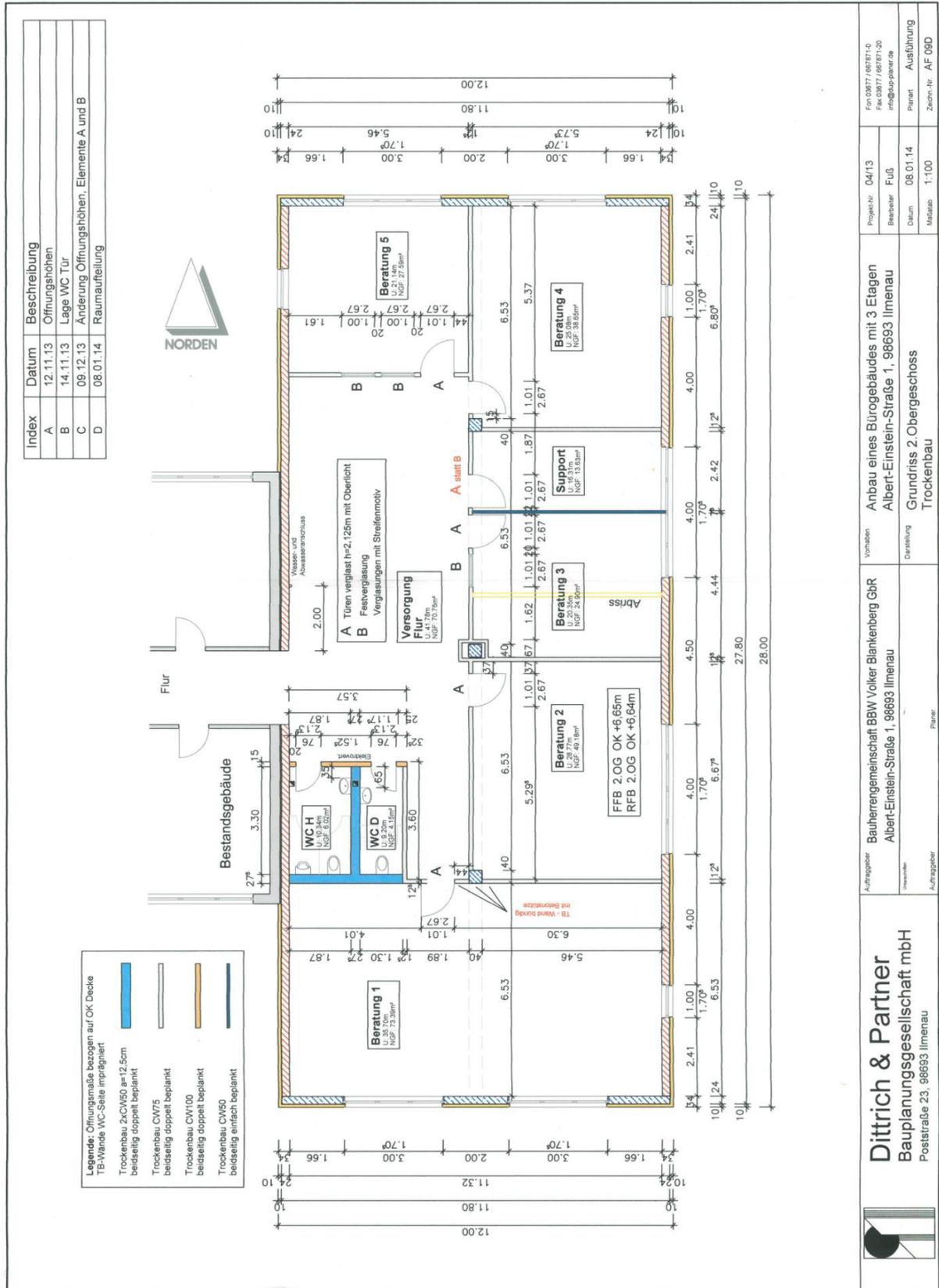


Figure 60: Example of a floor plan

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