

Instructions photo upload Windplanner

The purpose of this document is an instruction about how to use the photo upload in Windplanner. With photo upload you can use your own spherical panoramic images and position them quickly and accurately.

Request photo upload

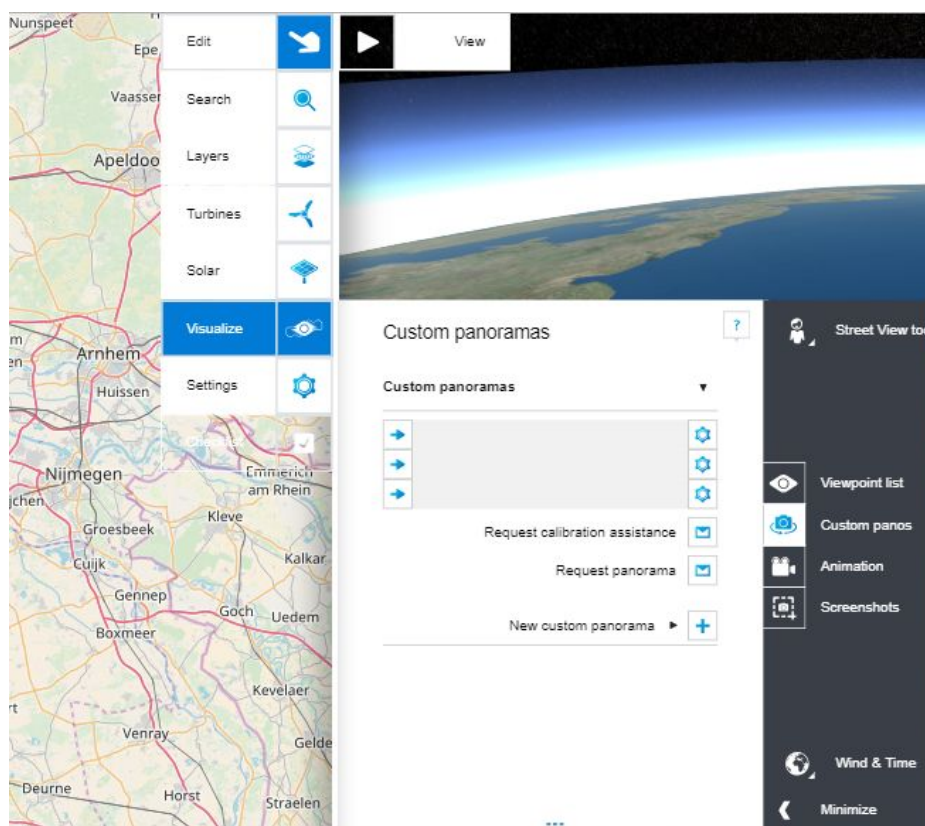
In addition to photo upload, you can request a photo using this link:

<https://windplanner.com/request/>.

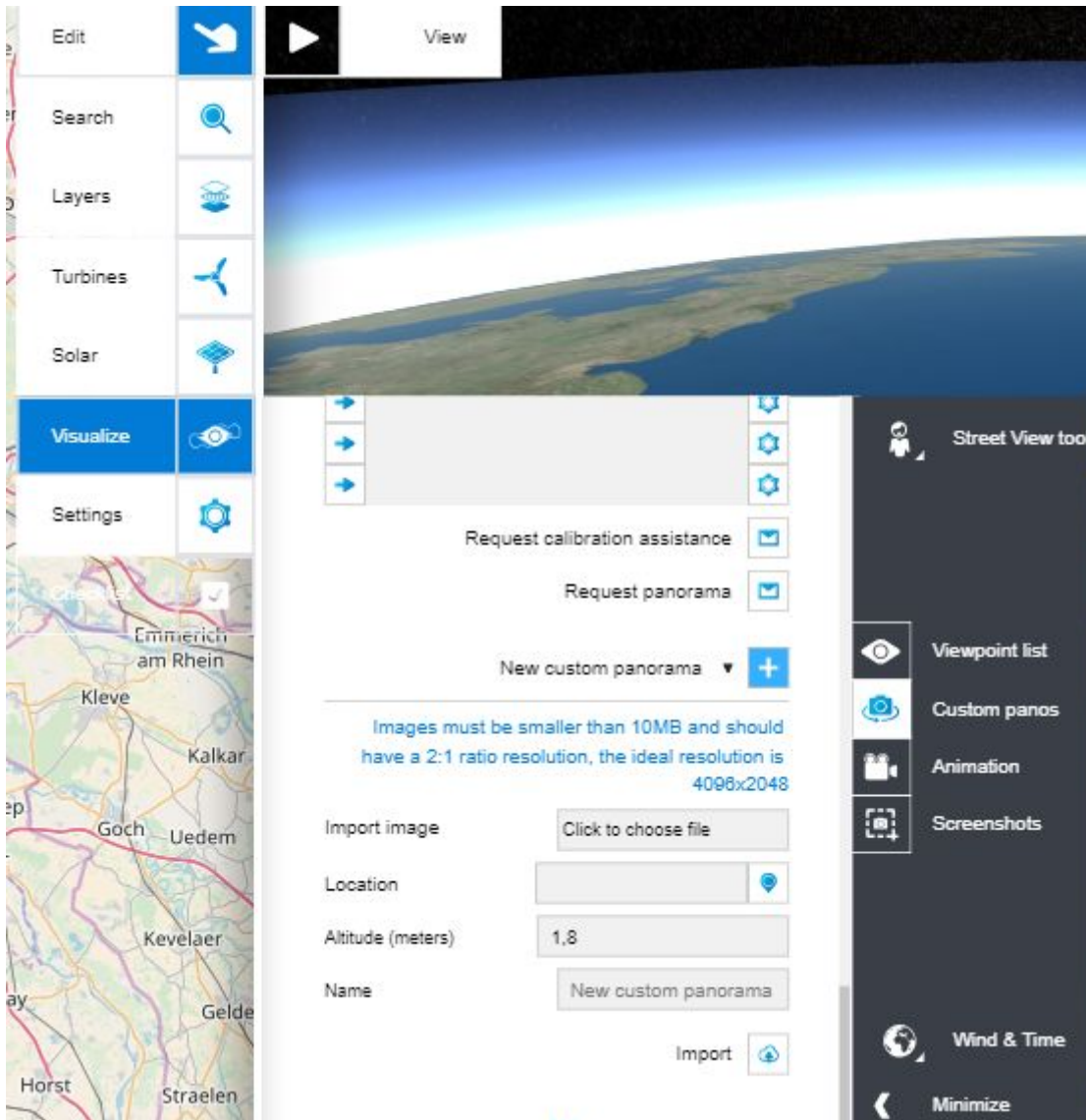
Our photographer will take high quality spherical panorama pictures of the location according to your needs. This offer includes stitching, colour editing, uploading and full alignment within the 3D world of Windplanner.

Instructions how to use the photo upload in Windplanner

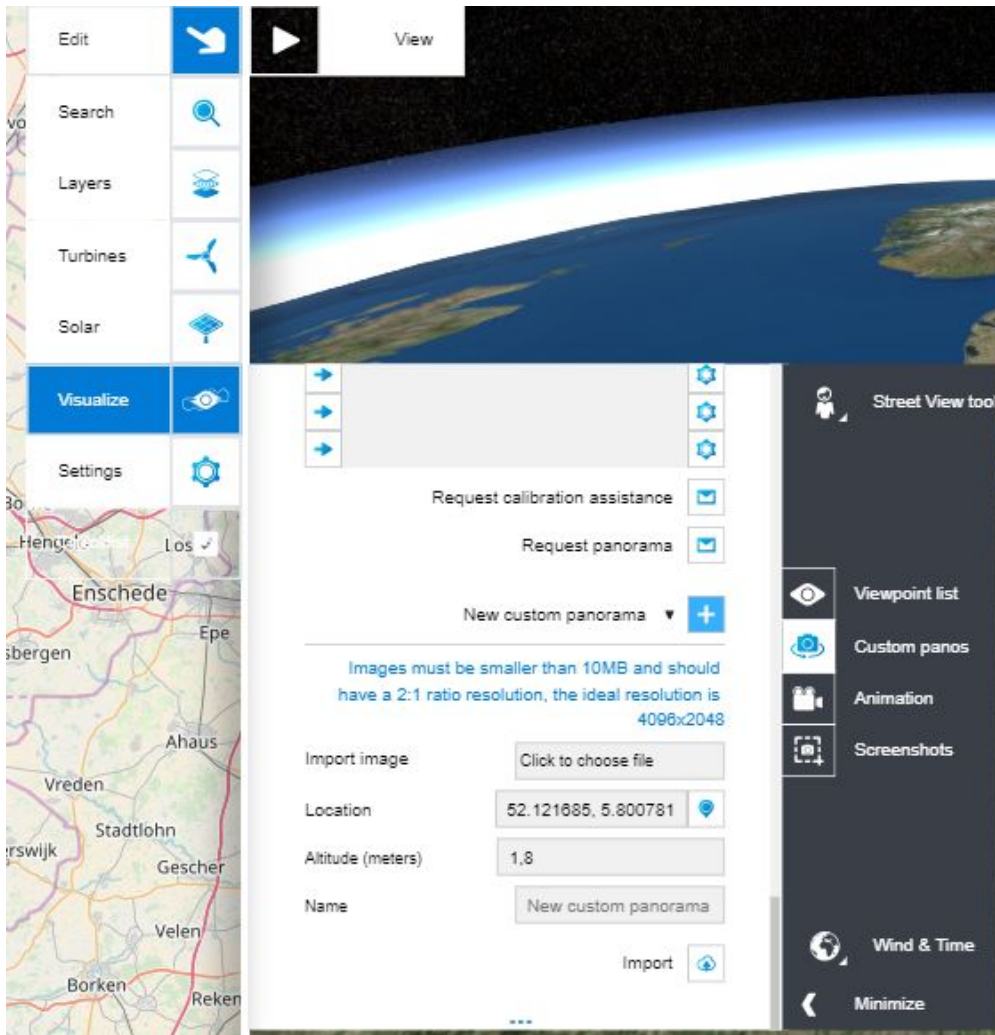
1. First you have to take a picture at the preferred location. The ideal resolution is 4096 x 2048, the ideal image format is .jpeg and the maximum size is 10 MB. We suggest a size between 4 and 5 MB.
2. Write down the exact coordinates of the location where you took the picture.
3. Start the Windplanner application. Go to visualize under the edit menu. On the right side of the screen a little menu pops-up. Please, click on custom panos on the grey side of the menu, see picture below.



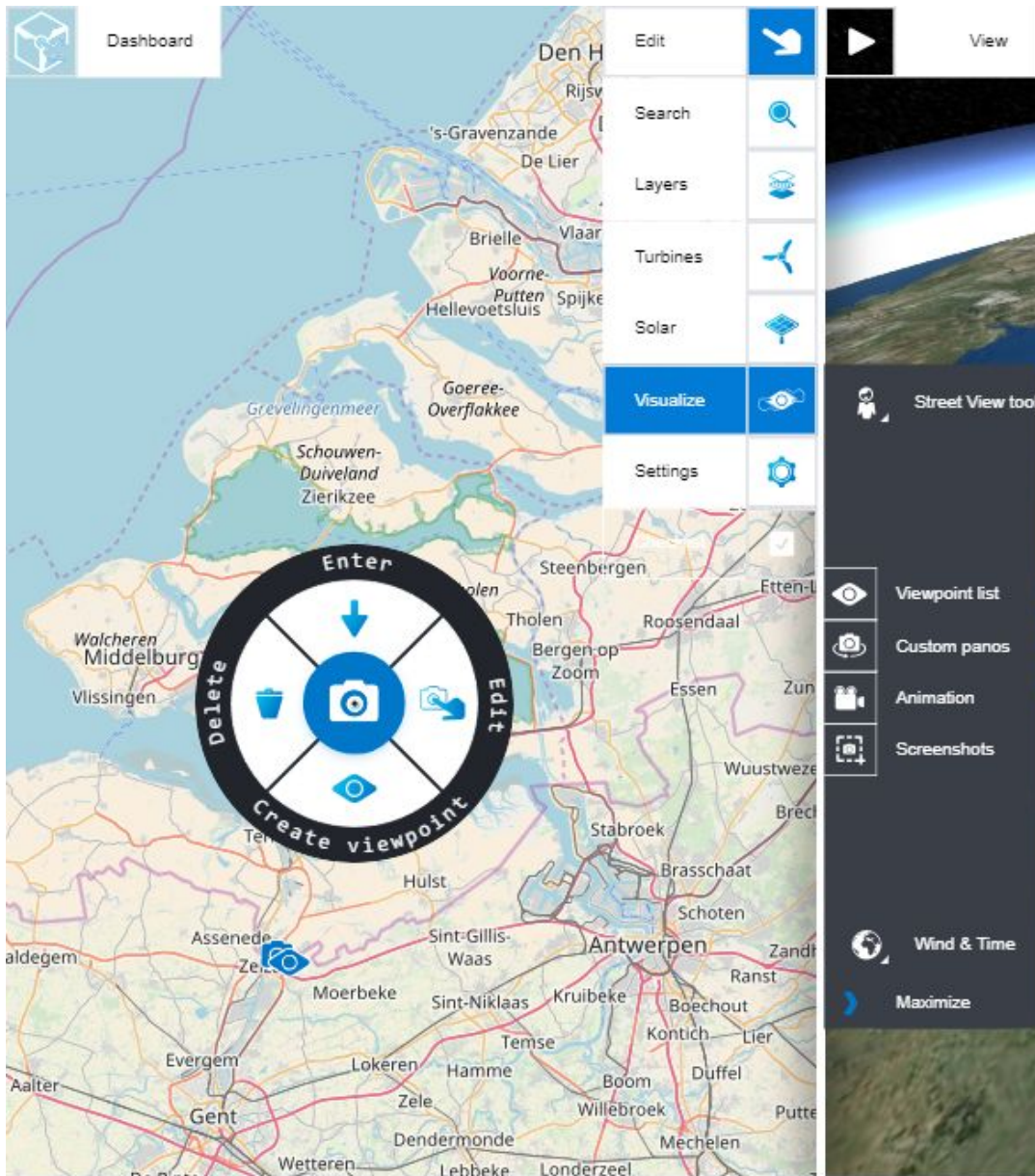
4. Click on “new custom panorama” button.



5. First, click on the box “click to choose file” and upload the image you would like to import.
6. Select the coordinate system of your choice and type in the coordinates in the location box. Use a comma as separator between the values. See picture below.



7. Then give a name to the new custom panorama and you can click on import to upload the image.
8. When Windplanner uploaded the file successfully, a little camera icon appears on your 2D map (left side of the windplanner screen). This could take a few seconds, depending on the speed of your internet connection and the image size.
9. Click on the camera icon, a white circle around the camera icon will appear and a menu pops up. Then click on “Enter” see picture below. The panorama photo will now be loaded and shown on the right side of the screen.

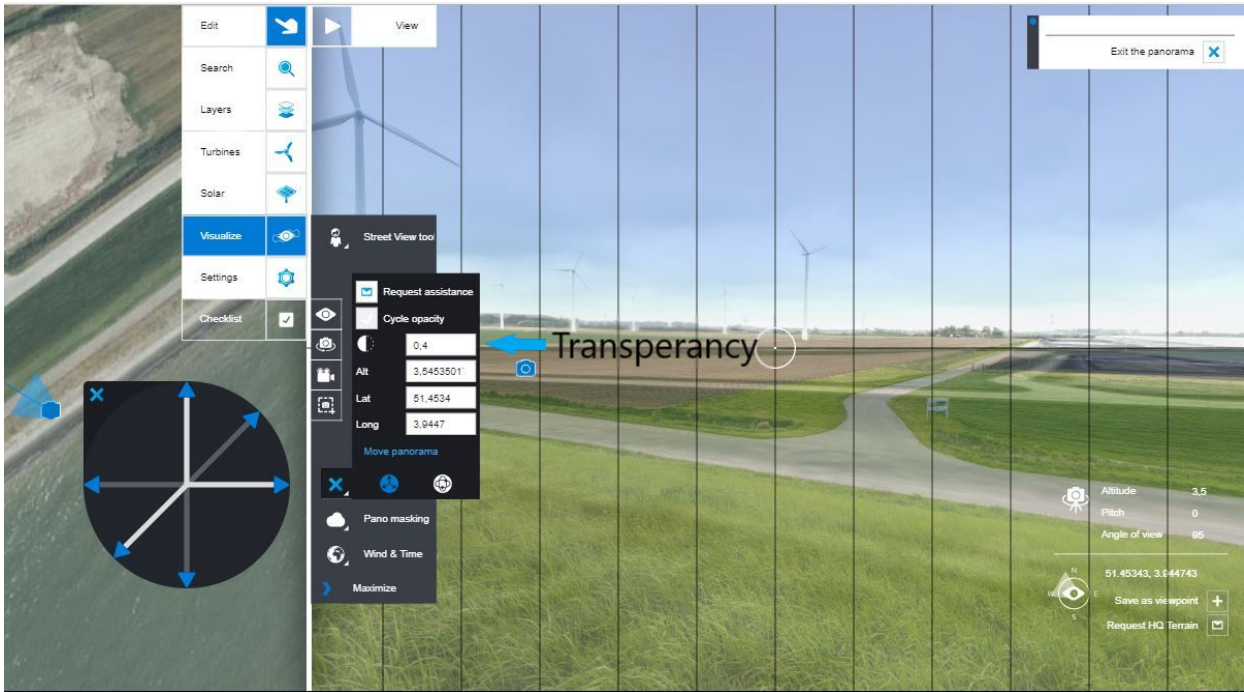


The following steps are important to make sure your photo will match to the 3D world and is aligned to the horizon. We will describe how to use the transparency button and how to correct your photo to the 3D world. With the rotation and correction you make sure that your photo is on the same position as the 3D world.

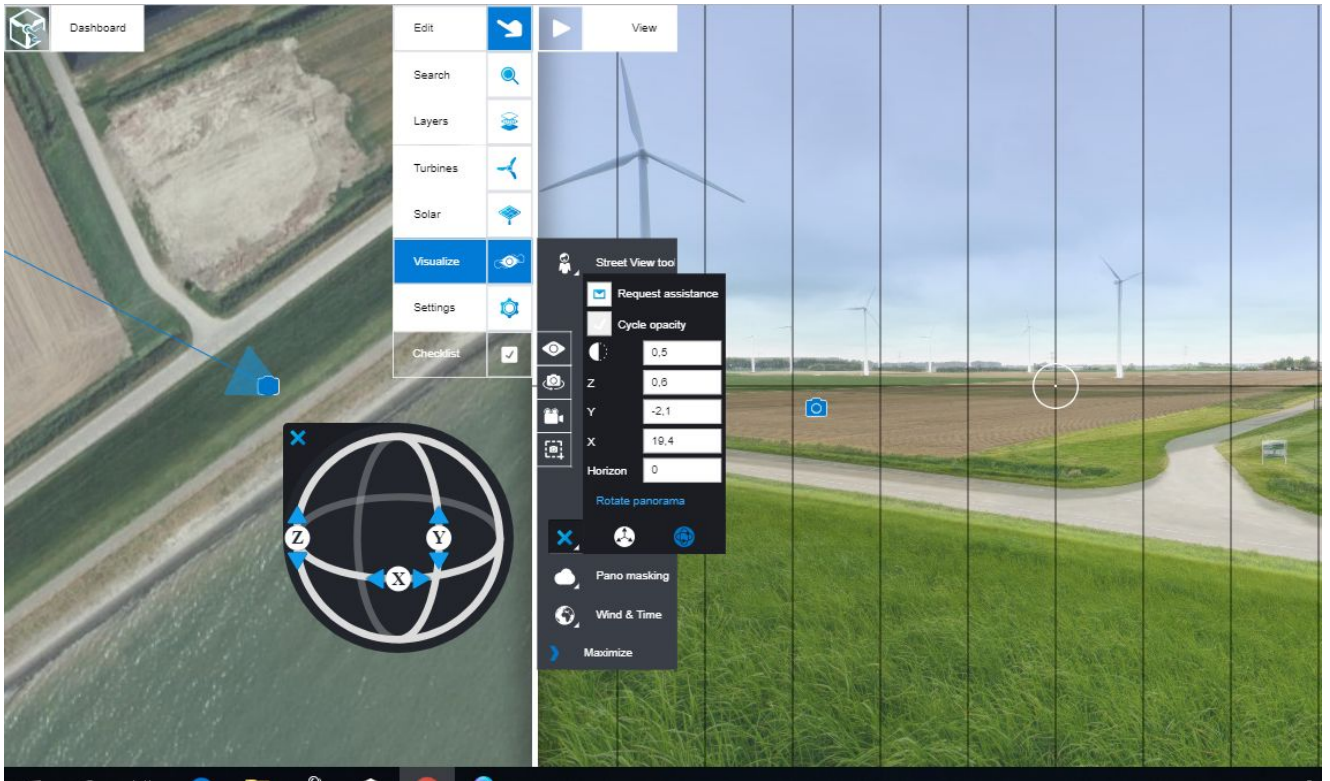
10. To start with this process please click on visualize in the menu and then click on the pano calibration button. See picture below.



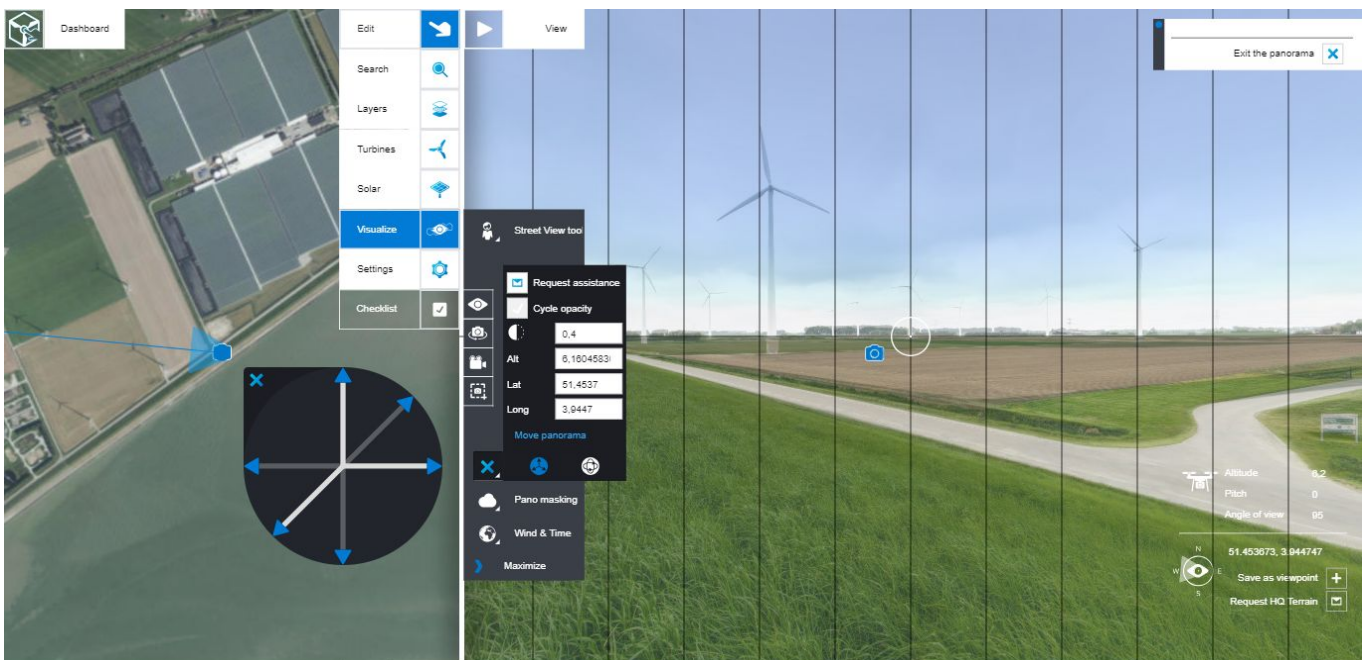
- Below you can see the picture is not aligned with the horizon of the 3D world. For example you can see the road from the picture is not aligned with the road of the 3D world. It is important for the aligned to change the transparency. In the picture below, you can see how you can change the transparency. The transparency is a useful tool during the aligning, just make sure the 3D world and picture are both visible.



12. When the transparency is fine (you see both your picture and the 3D world)
 Suggestion before aligning: find some reference points like roads or houses. In this picture, the road is a good reference point to focus on. With the blue line in the 2D map on the left side of the screenshot you can easily find a reference point. The white circle on the right side of the screen matches exactly the direction of the blue line on the left of the screen. Please focus on the blue line and white circle to match the 3D world and picture with each other. In the last picture of this document you can see that the blue line in of the 2D map is pointing to the existing turbine and the with circle in the 3D world points at this turbine as well. In that case you know you have found the exact position of the photo. In the picture above you can see the icon with 6 arrows on the left side of the screen. With this tool you can move the position of the camera to find the exact position. In the picture above the road was a good reference point to find the right position. You can go left, right, up, down, forward and backwards with the arrows. If you are satisfied with the position of your camera you can now aligning the picture to the horizon in the 3D world.



13. With the second button in the menu, next to the position button you used in the previous step. You can find the rotation button. With the Y, X & Z buttons you can align the picture to the 3D world. In the picture above you can see that the line from the 3D world is not matching with the picture. In the picture below, you can see the horizon of the 3D world and picture are aligned with each other.



14. Now the alignment is complete and you can start with placing your wind turbines.
Good luck!

If you need further instructions, you can call us at: +31 (0)515 439 230
Or send us an email: support@windplanner.com