



Porto

Thessaloniki

Zagreb

La Sénia

Aradippou

Lowicz

3DF ZEPHYR TUTORIAL

Geodetska škola, Zagreb



Erasmus+

3DF ZEPHYR FREE

PHOTOGRAMMETRY FOR EVERYONE



Erasmus+

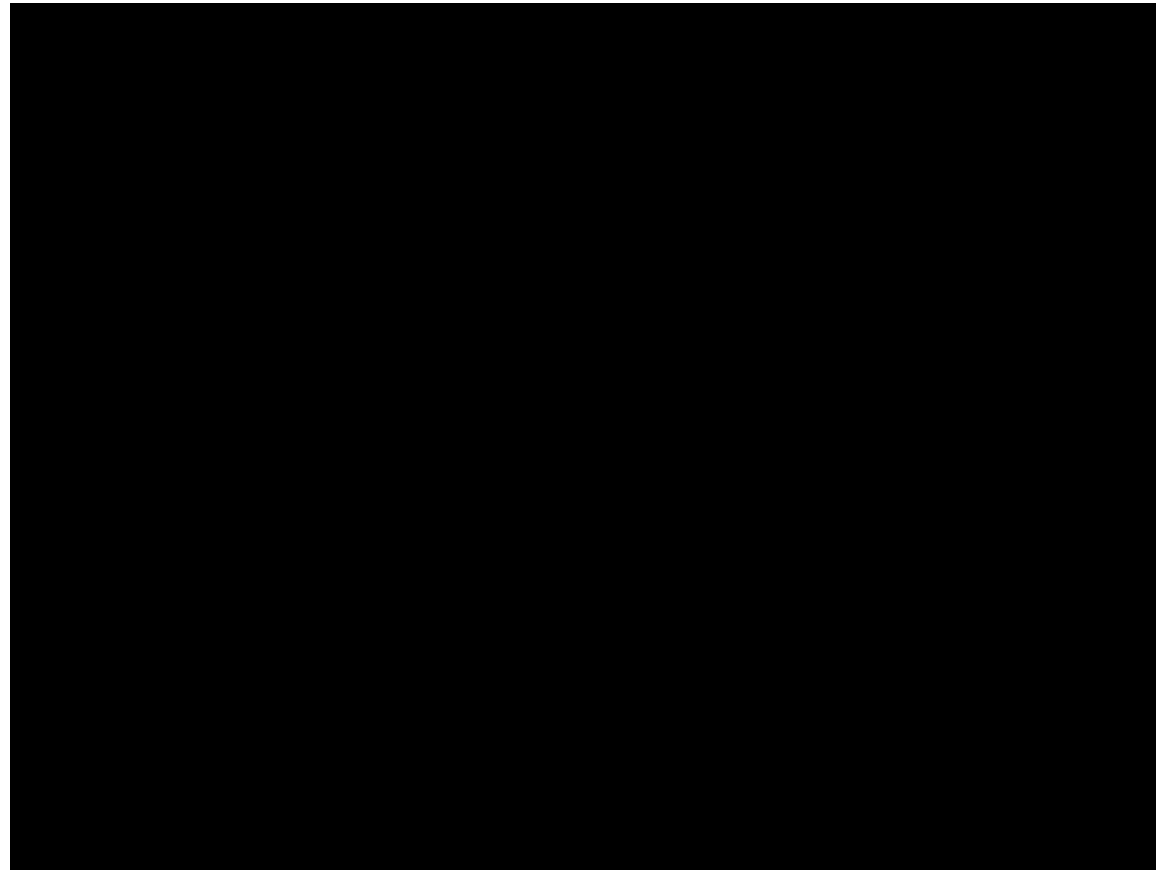


- The photogrammetry software
- 3DF Zephyr allows you to reconstruct 3D models from photos automatically.
- The process is entirely automatic, and no coded targets, manual editing or special equipment are needed.



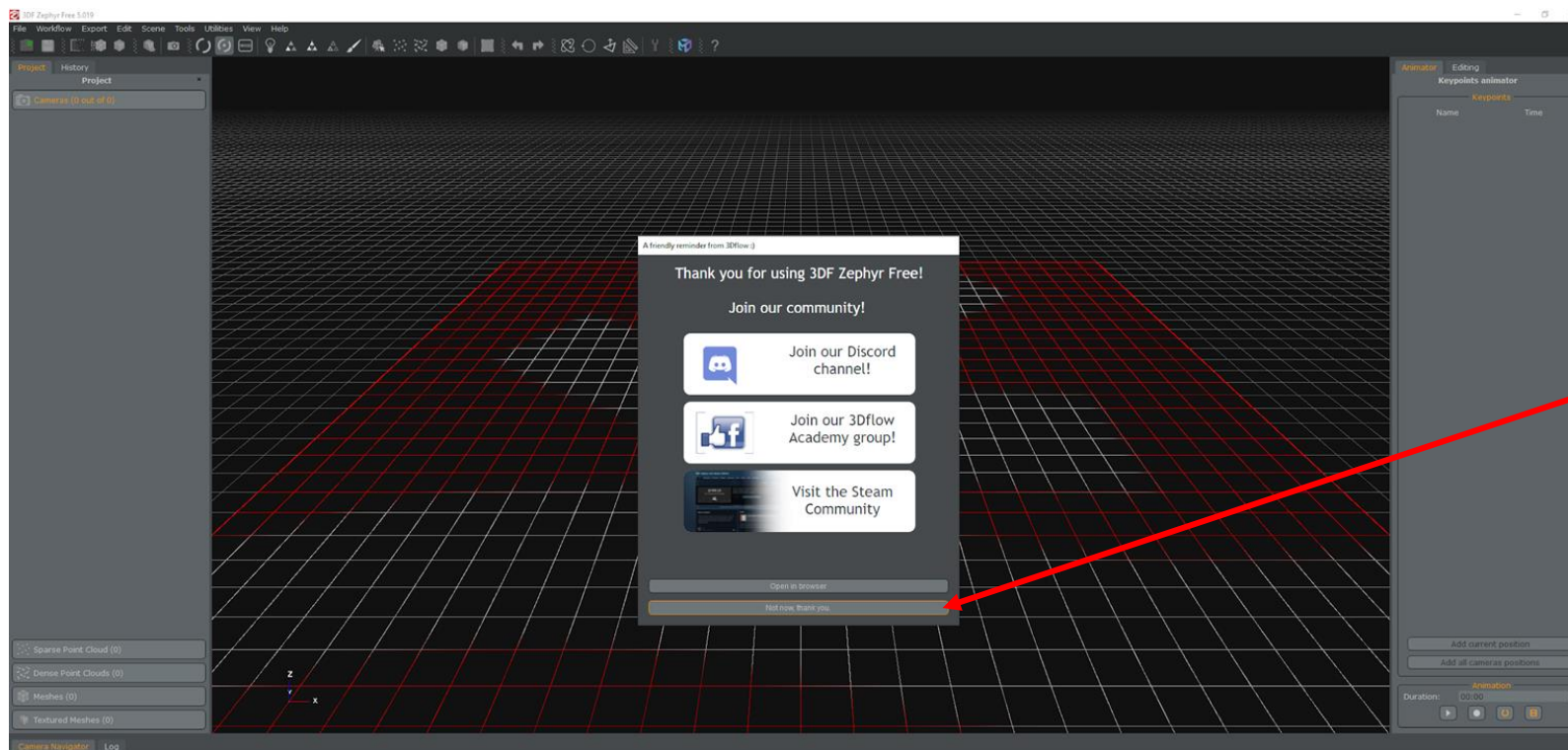
INTENTION

This tutorial is intended to introduce you to a few simple commands and some concepts in order to create a 3D model, like this:



THE MAIN WINDOW (3DF ZEPHYR)

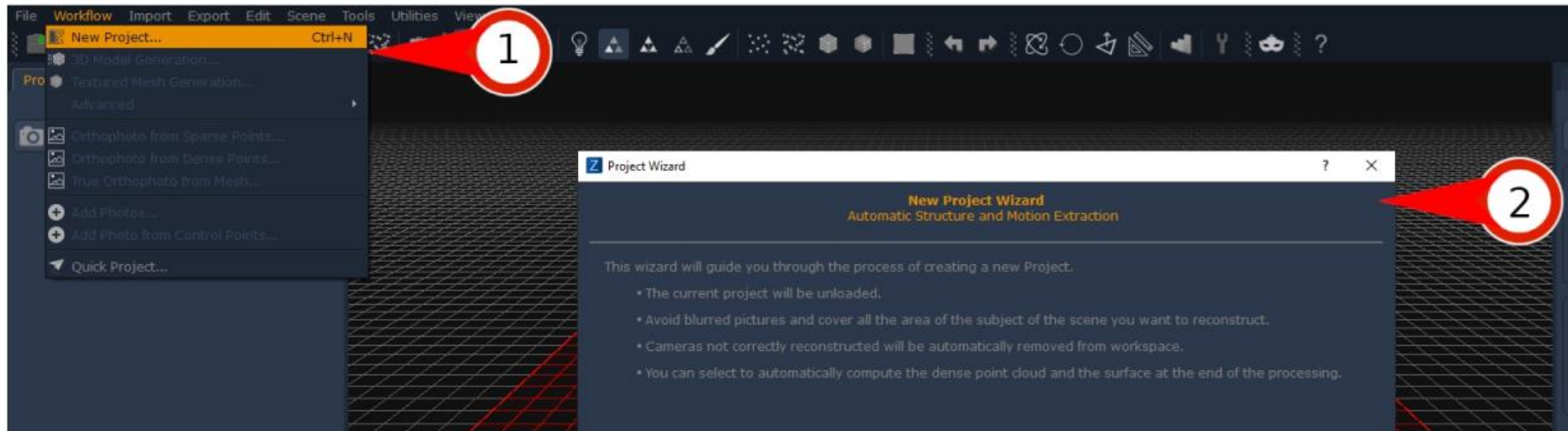
- When opening Zephyr, the interface layout will look like this:



Choose:
*Not now, thank
you.*

STARTING A NEW PROJECT

- ❑ Got the photos? Then you are ready to begin the reconstruction process!
- ❑ To create a new project, just click on **Workflow > New Project (1)** .
- ❑ The **Project Wizard (2)** screen will appear which will guide you through the process of importing your pictures.



STARTING A NEW PROJECT

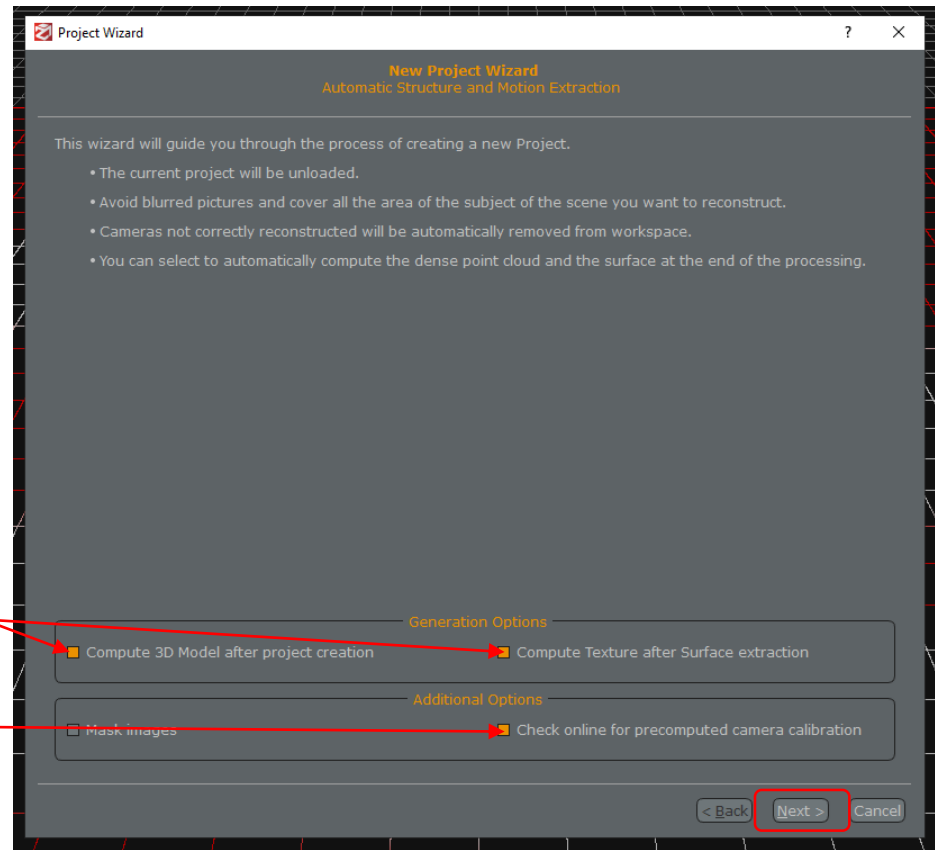


In that wizard there are two submenus :
Generation Options
Additional options

1. Turn ON

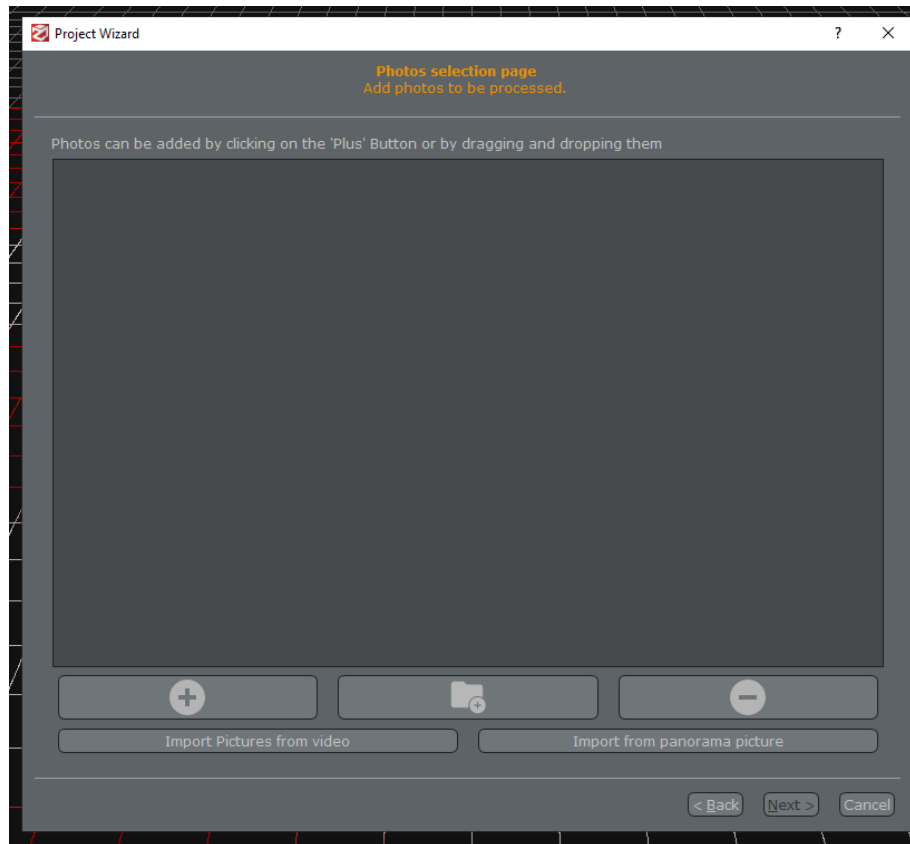
- *Compute 3D Model after project creation*
- *Compute Texture after Surface extacion*
- *Check online for precomputed camera calibration*

2. Next



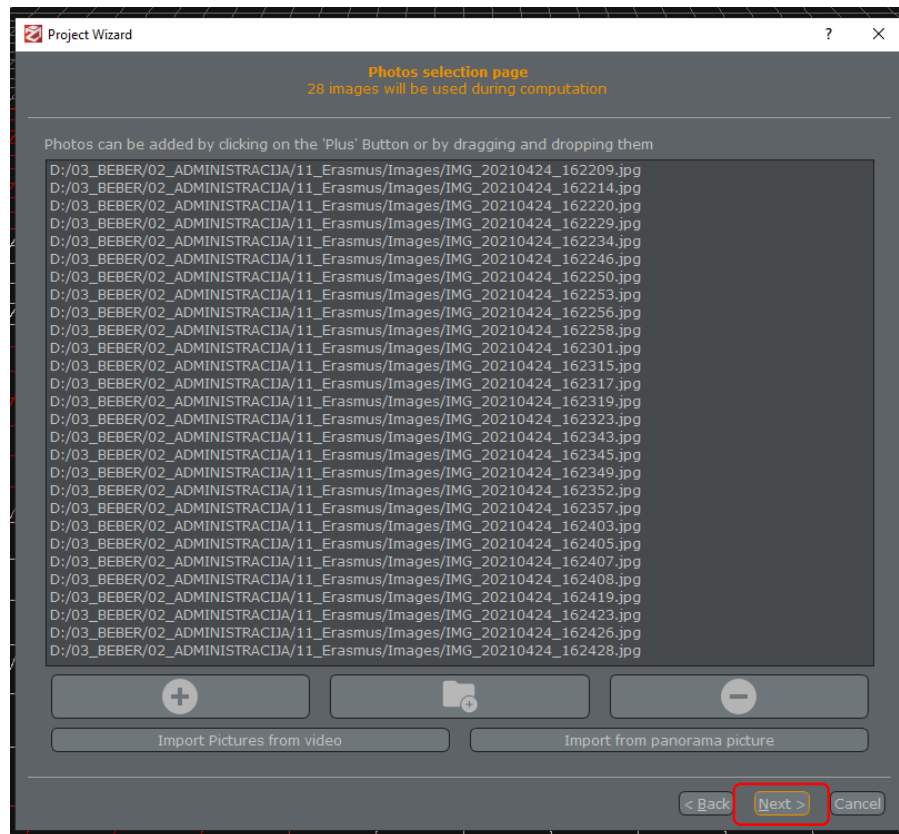
LOAD THE PHOTOS

The next window is the **Photos selection page**, where the user is asked to load the pictures:

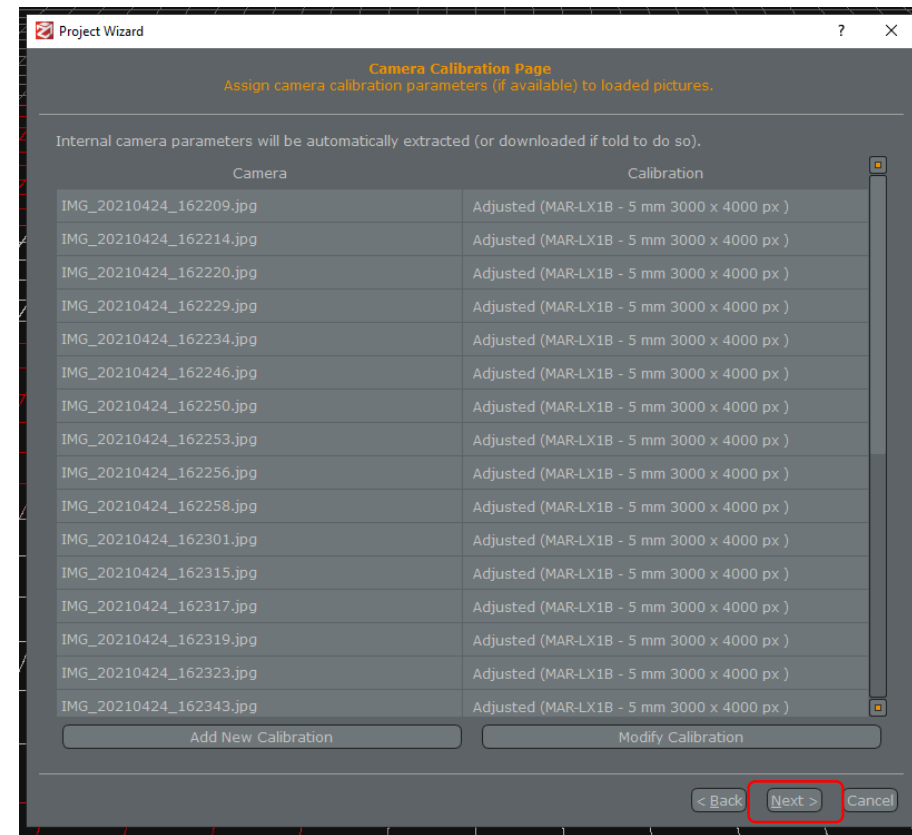


- ❑ It is possible to drag 'n' drop the files into the window or to click on the **"+" Button** to select a photos directory.
- ❑ You can also directly add a specific directory containing the desired pictures.

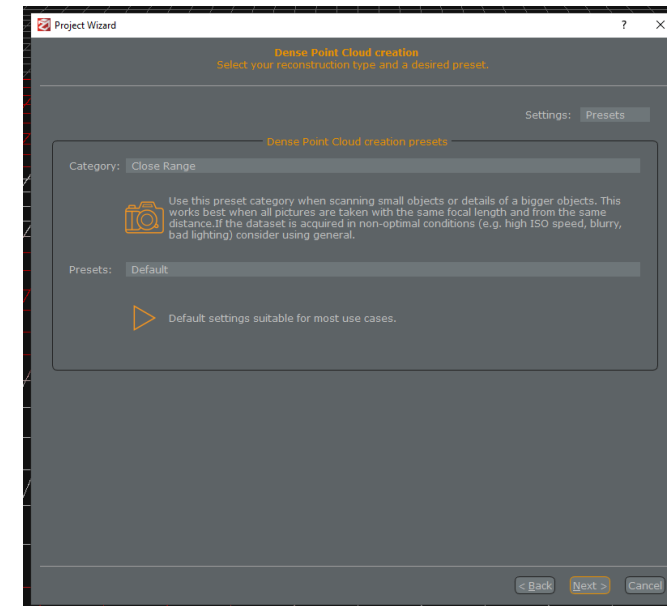
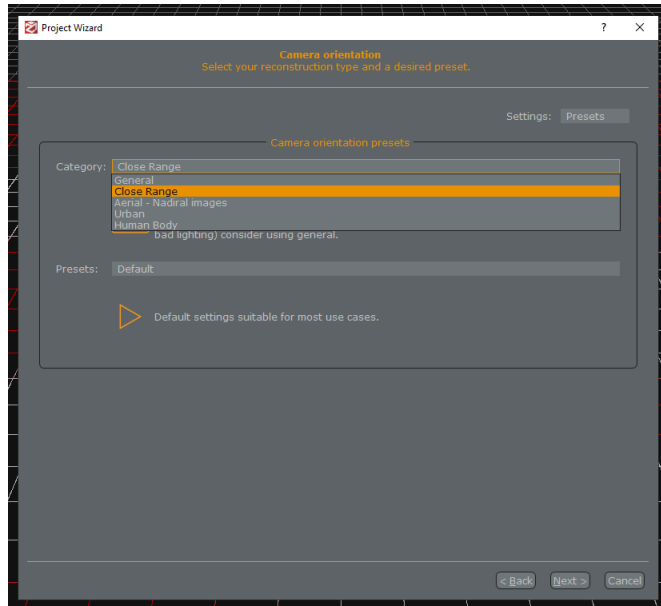
CAMERA CALIBRATION



After loading the images or video files and clicking on **Next** button, you will see the **Camera calibration** page



ORIENTATION & POINT CLOUD



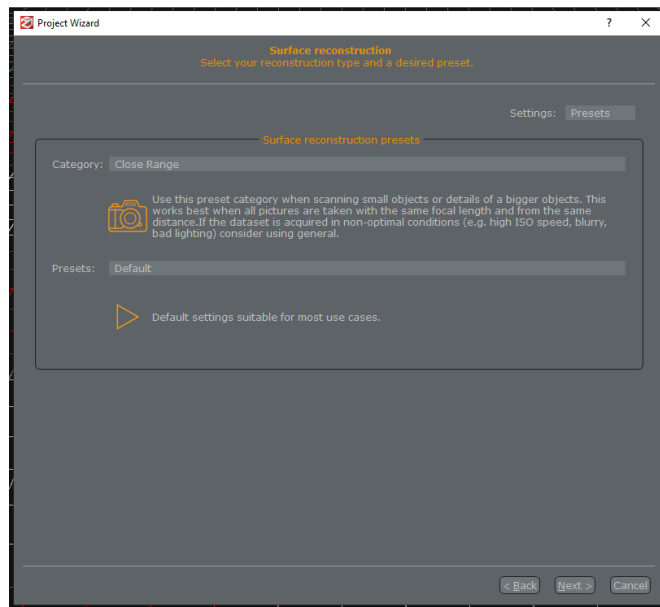
Camera Orientation

1. Category: Close Range
2. Presets: Default
3. Next

Dense Point Cloud Orientation

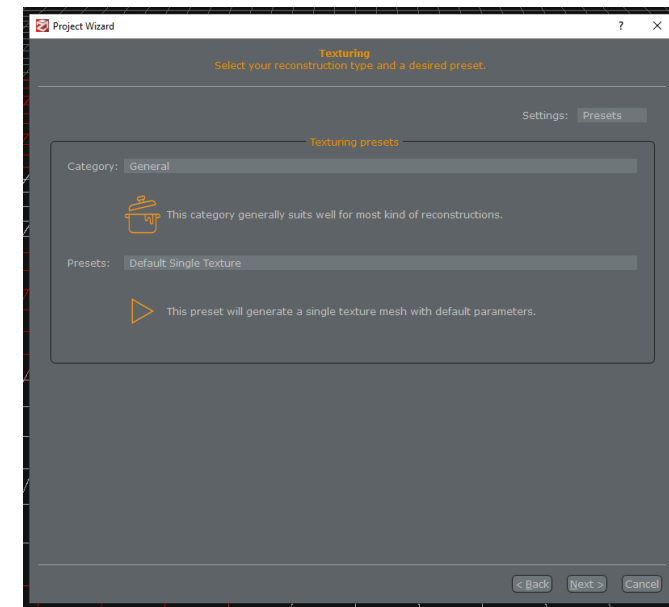
1. Category: Close Range
2. Presets: Default
3. Next

SURFACE & TEXTURING



Surface reconstruction

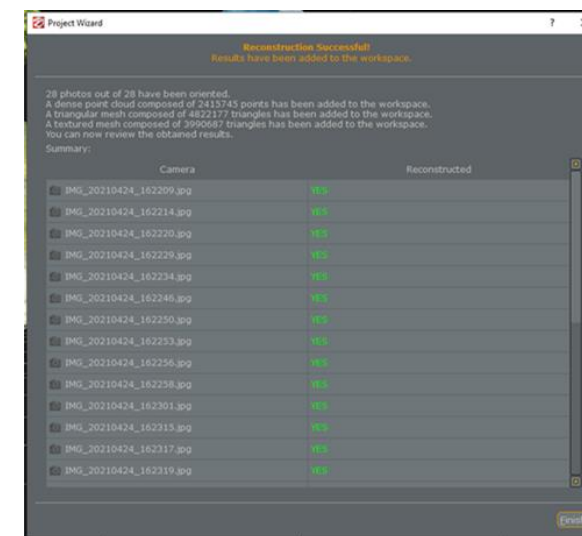
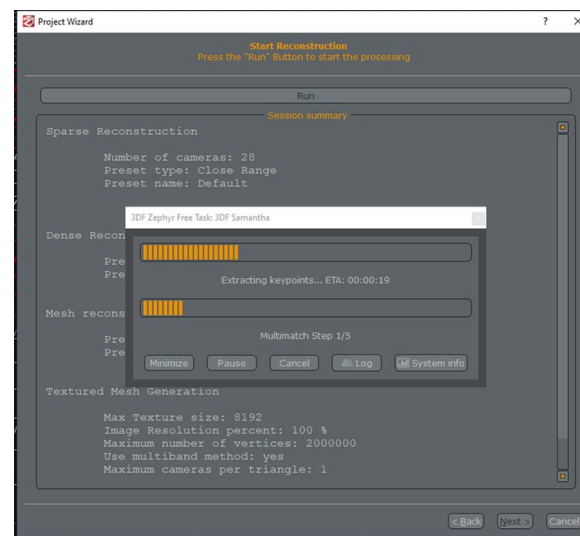
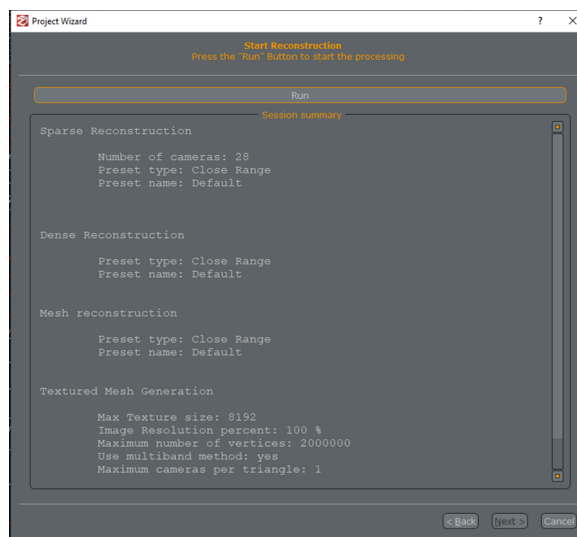
1. Category: Close Range
2. Presets: Default
3. Next



Texturing

1. Category: General
2. Presets: Default Single Texture
3. Next

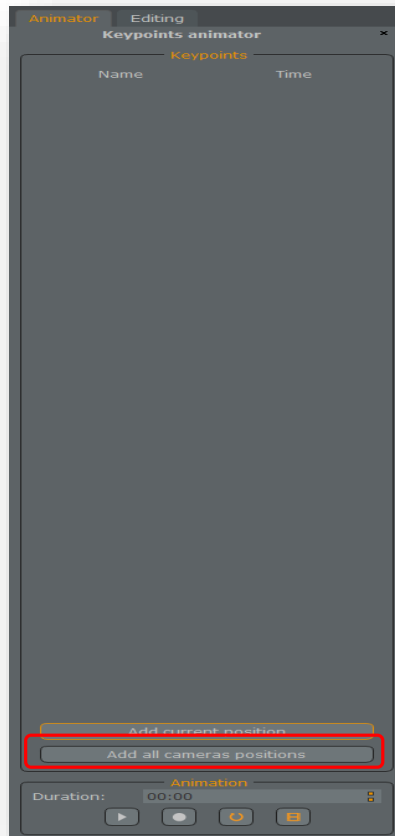
RECONSTRUCTION



Start Reconstruction

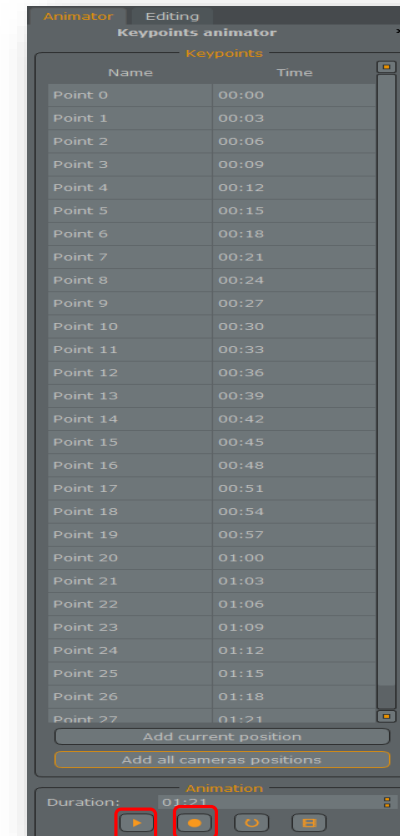
1. Run
2. The software computes Point Cloud and creates the Wire Model

CREATING ANIMATION



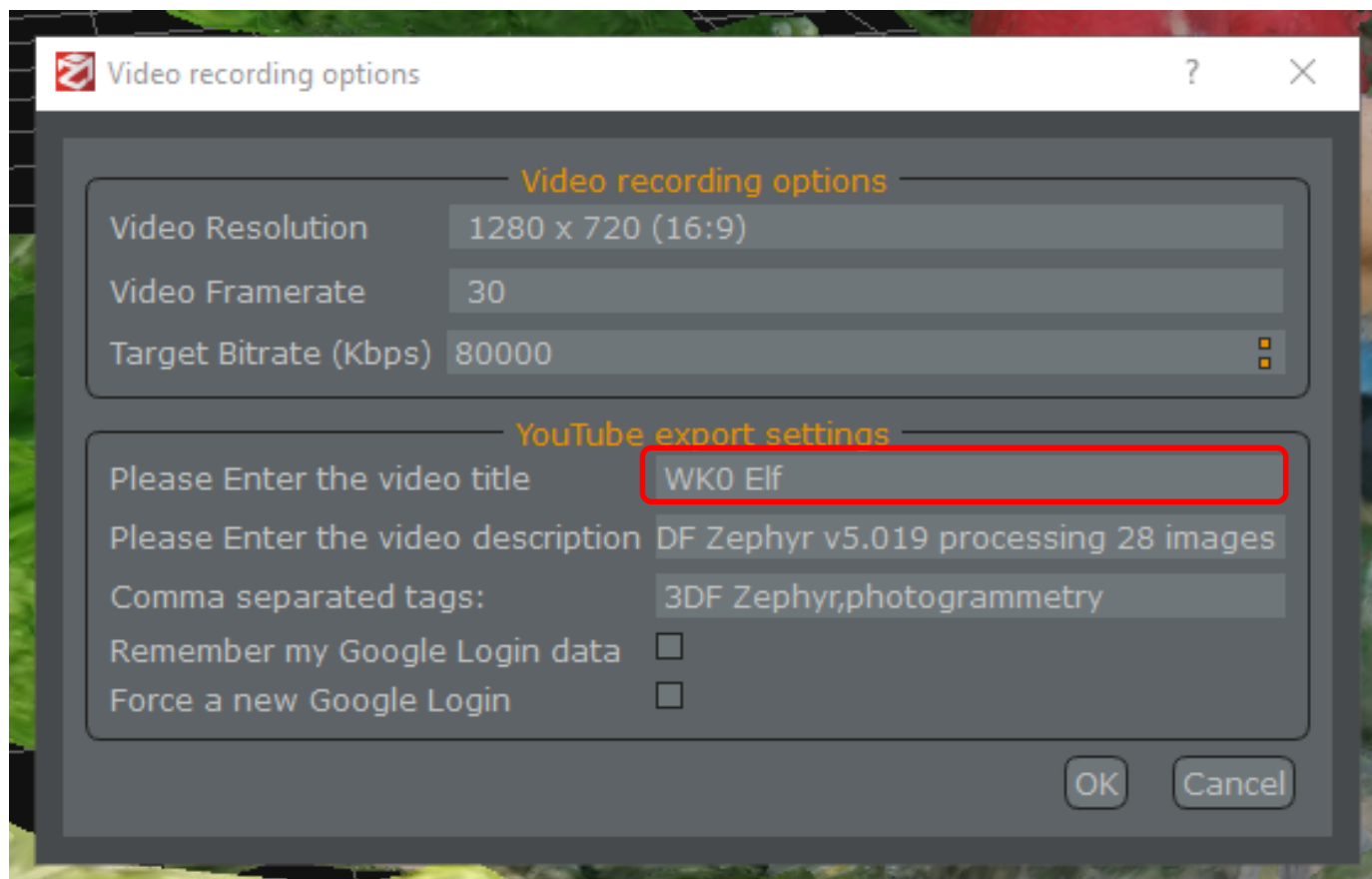
Animator

1. Add all cameras positions
2. Play
3. Record

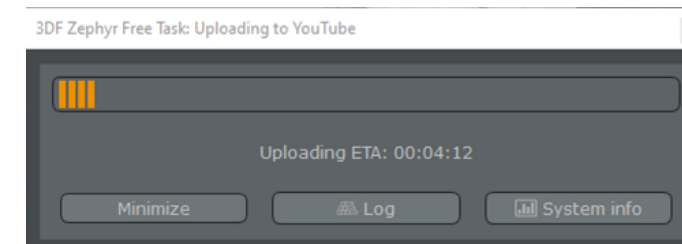
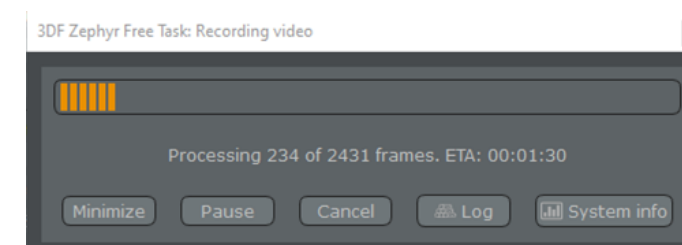


2 3

VIDEO RECORDING




1. Please Enter the video title:
WK NR Name of Statue
2. OK



CREATE ACCOUNT BY GMAIL



Prijavite se putem Googlea



Prijava

Nastavi do aplikacije **3DF Zephyr**

E-pošta ili telefon
steam.zagreb@gmail.com


[Zaboravili ste e-adresu?](#)

Prije upotrebe aplikacije 3DF Zephyr možete pregledati njezina [pravila o privatnosti](#) i uvjete pružanja usluge.


Dalje

Hrvatski ▾ Pomoć Privatnost Uvjeti

Prijavite se putem Googlea



Dobro došli

 steam.zagreb@gmail.com

Unesite zaporku
Geoskola.2


Prikaži zaporku

Prije upotrebe aplikacije 3DF Zephyr možete pregledati njezina [pravila o privatnosti](#) i uvjete pružanja usluge.


[Zaboravili ste zaporku?](#) **Dalje**

Hrvatski ▾ Pomoć Privatnost Uvjeti


Prijavite se putem Googlea



3DF Zephyr želi pristupiti vašem Google računu

 steam.zagreb@gmail.com

Time će se aplikaciji **3DF Zephyr** omogućiti sljedeće:

 Upravljajte svojim videozapisima na YouTubeu ⓘ

Provjerite možete li aplikaciju 3DF Zephyr **smatrati pouzdanom**

S ovom aplikacijom ili web-lokacijom možda dijelite osjetljive podatke. Pregledajte [pravila o privatnosti](#) aplikacije 3DF Zephyr da biste saznali kako će upotrebljavati vaše podatke. Na svojem **Google računu** možete vidjeti ili ukloniti pristup kada god želite.

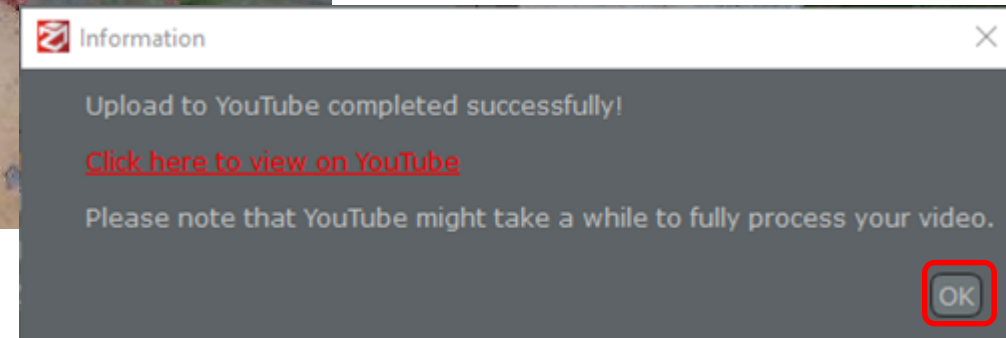
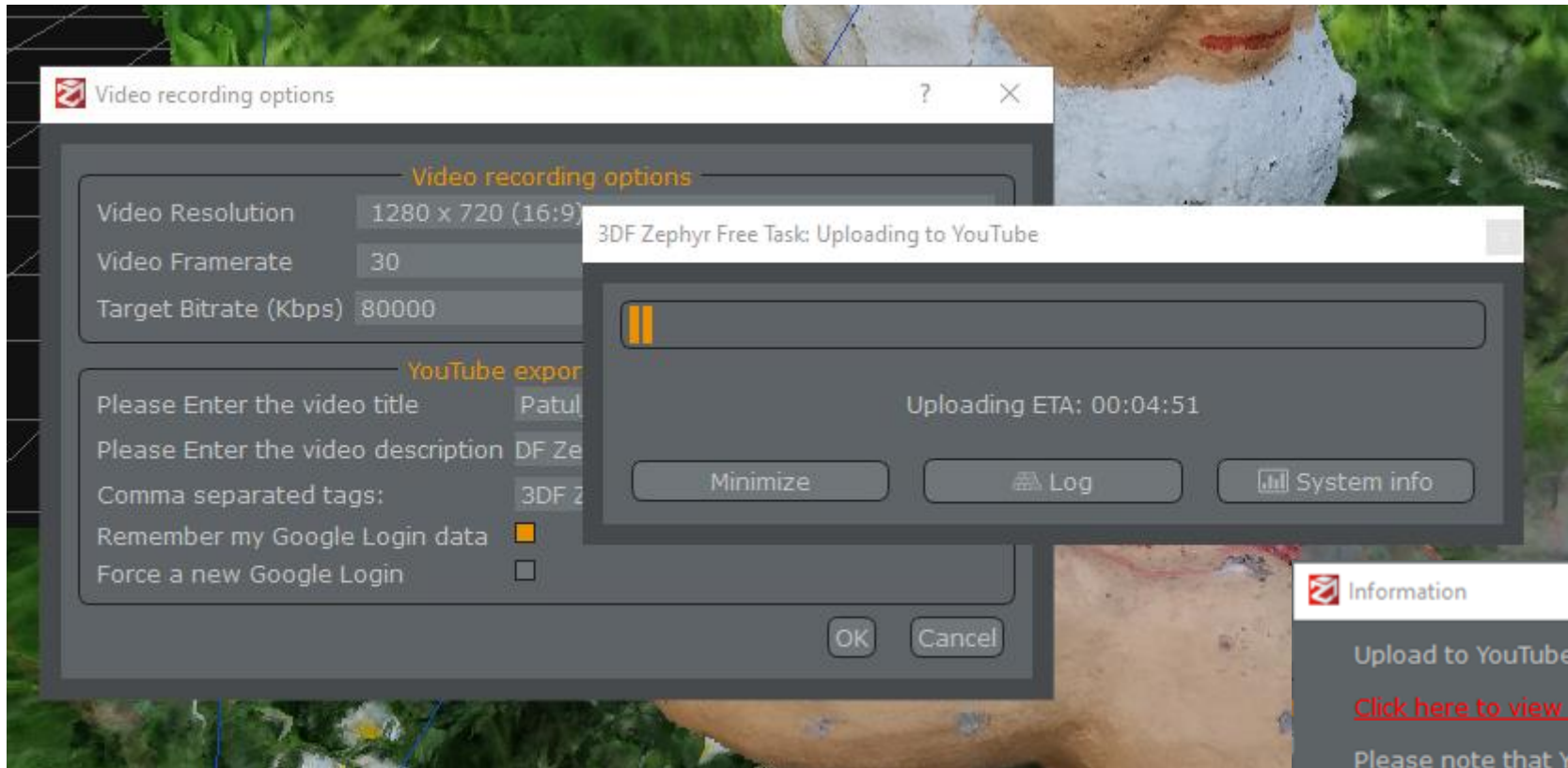
[Saznajte više o rizicima](#)

Odustani **Dopusti**

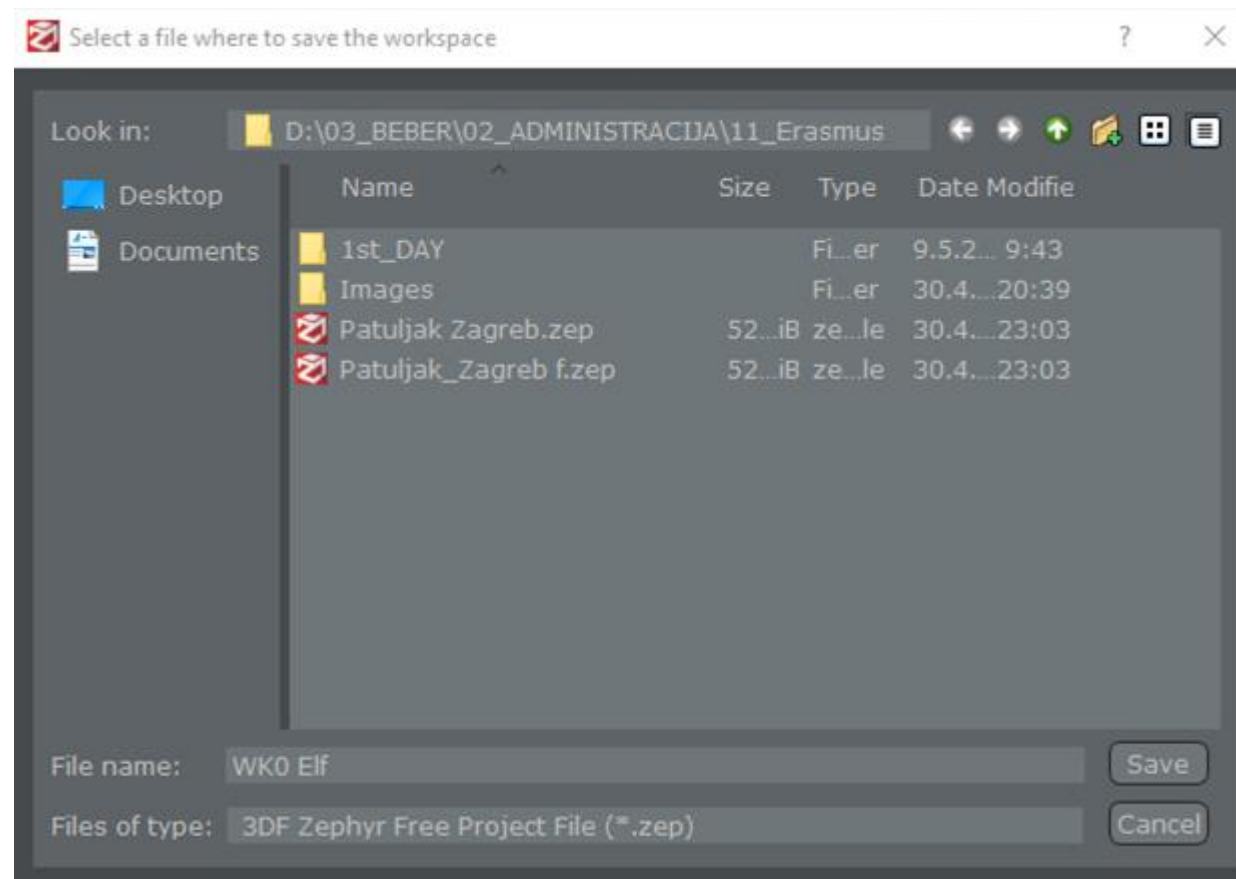
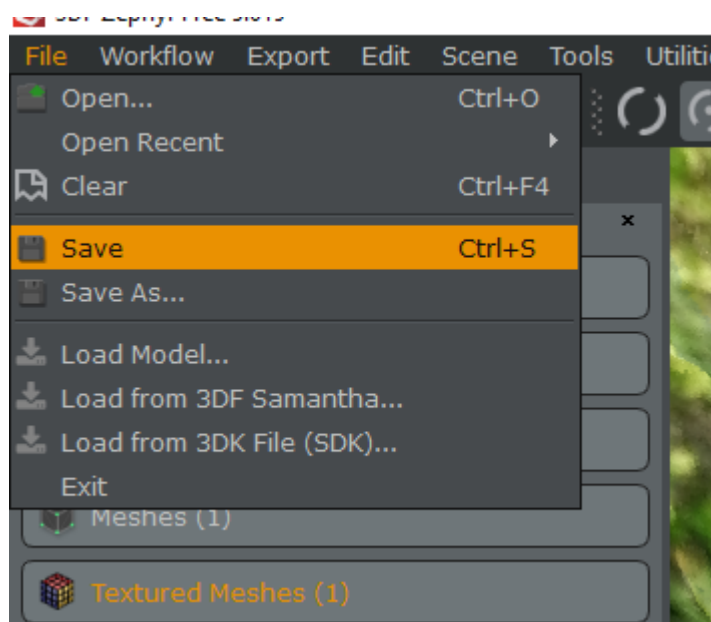
Hrvatski ▾ Pomoć Privatnost Uvjeti

Gmail:
steam.zagreb@gmail.com
Password: *Geoskola.2*

UPLOAD VIDEO TO YOUTUBE



SAVE YOUR PROJECT



Workspace name: *WK NR Name of Statue*
[Upload Project File](#)



REFERENCE LIST

URL 1. 3dflow, <https://www.3dflow.net/technology/documents/3df-zephyr-tutorials/>,
(2021, April 30)



Erasmus+



Thanks!

Croatia team:

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May 2021