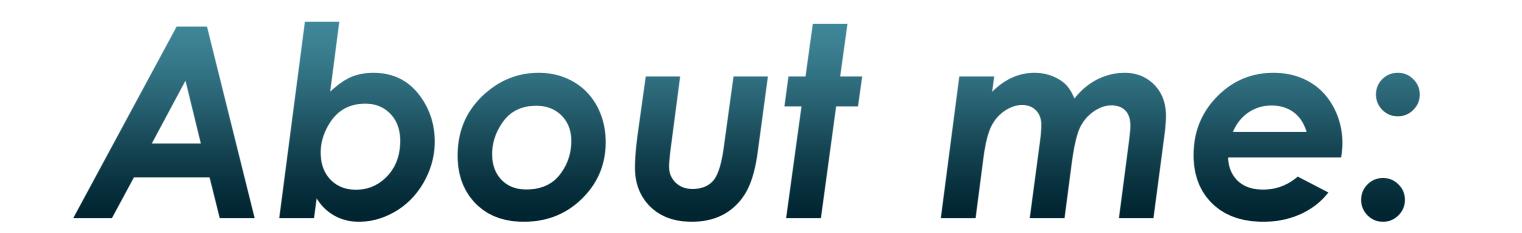
PORTFOLIO

Mon Polopov Prist

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- graduated from MIIGAiK with a specialization in Aerophotosurveying in 2013 (Faculty of Applied Cosmonautics and Photogrammetry);
- have experience in photogrammetric processing of ground and aerial imagery;
- worked in the fields of construction (as a surveyor),
 land management (as a cadastral engineer),
 aerial surveying (as a photogrammetrist)
 - experienced in working with various photography equipment (digital cameras, aerial cameras, drones), geodetic instruments (total stations, GNSS receivers);

- proficient user of specialized software
(Agisoft Metashape, Autodesk AutoCAD,
Bentley ContextCapture,
Global Mapper, SketchUp, Adobe Photoshop,
Meshmixer, Google Earth, PTGui).

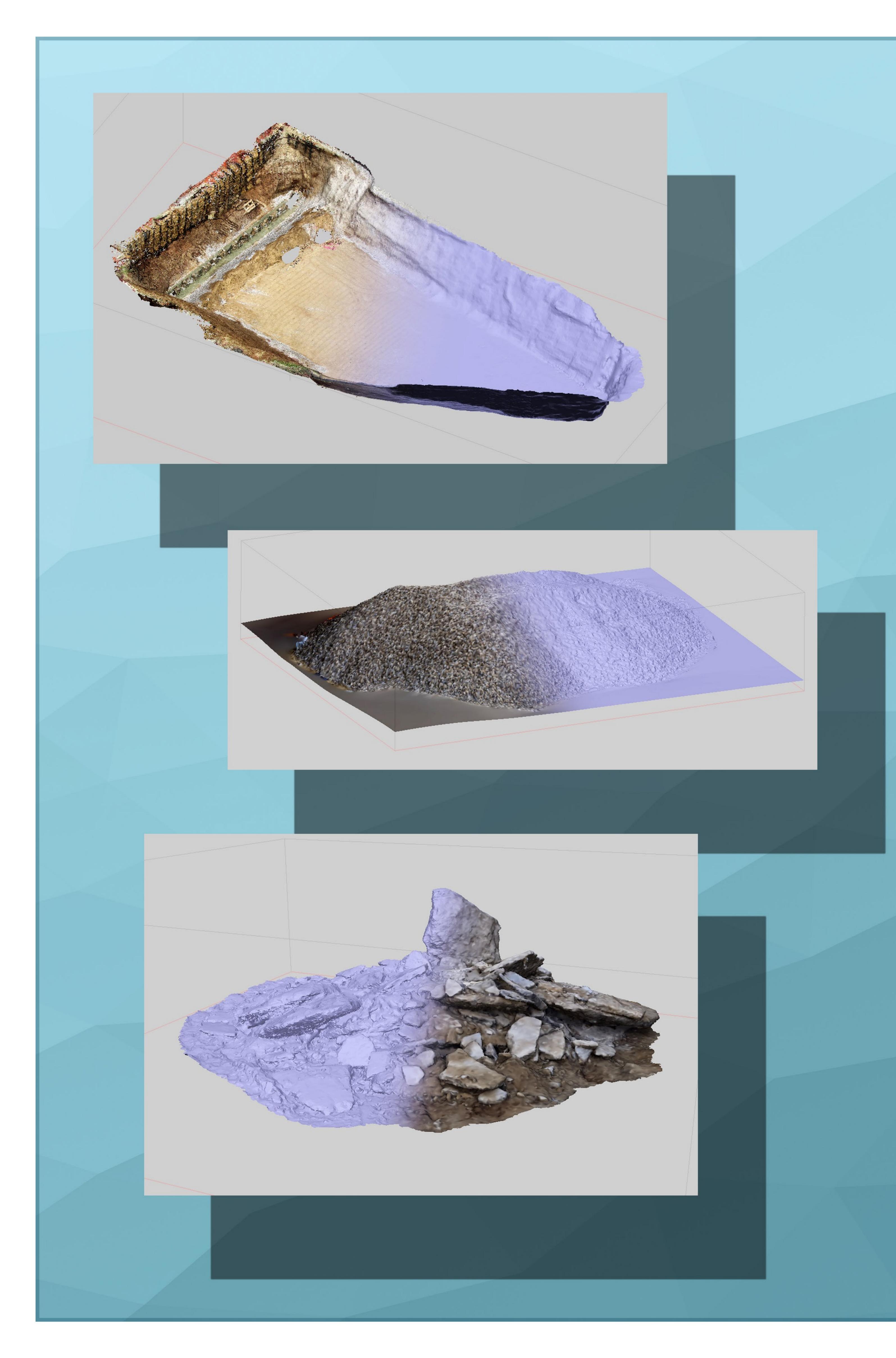


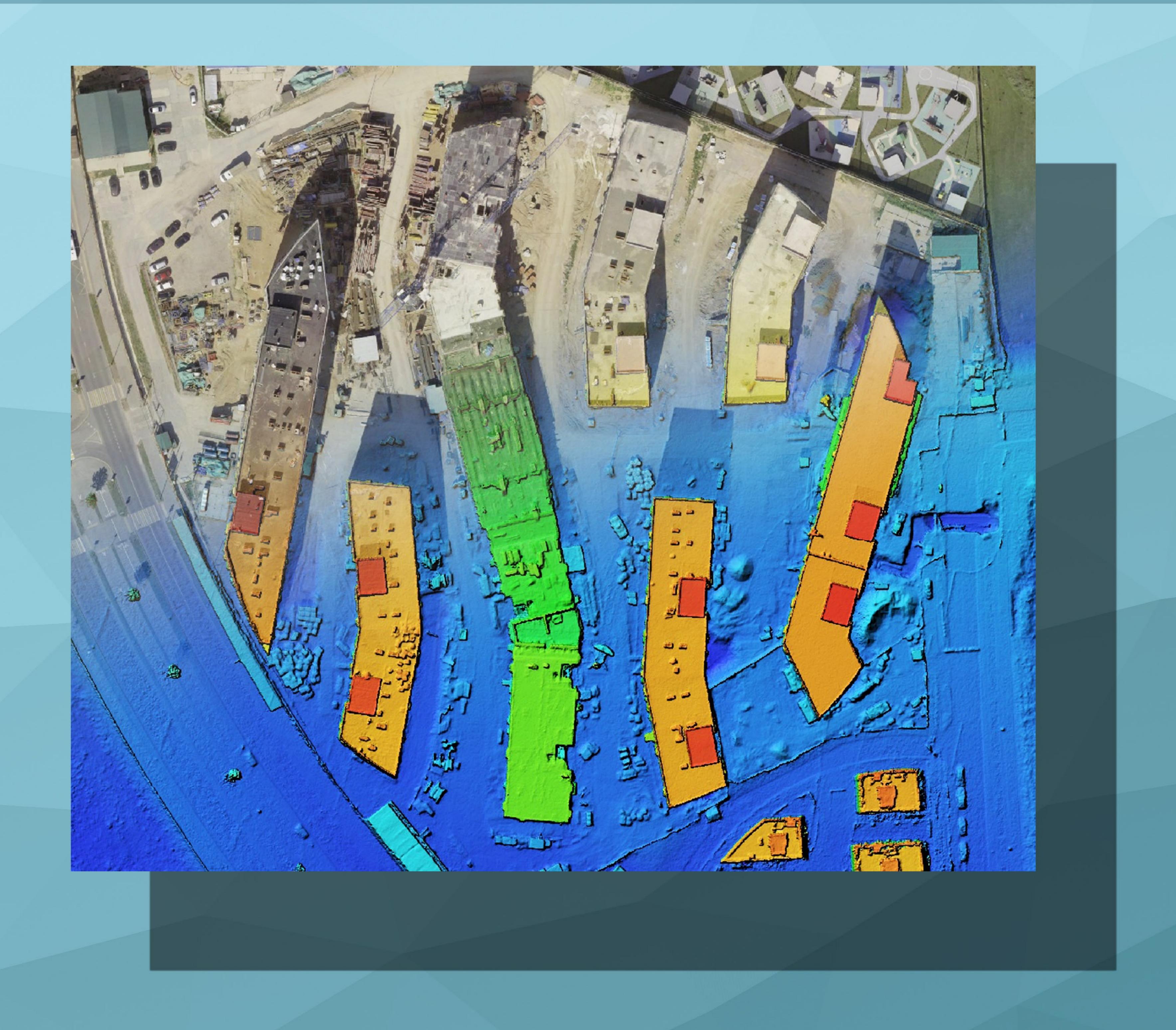
Urban sculptures

Task: creation of 3D replicas of the sculptures of the city of Aleksin, Tula region.

Equipment: GoPro Hero6 Black, DJI Phantom 4.

Software: Agisoft Metashape, Meshmixer.





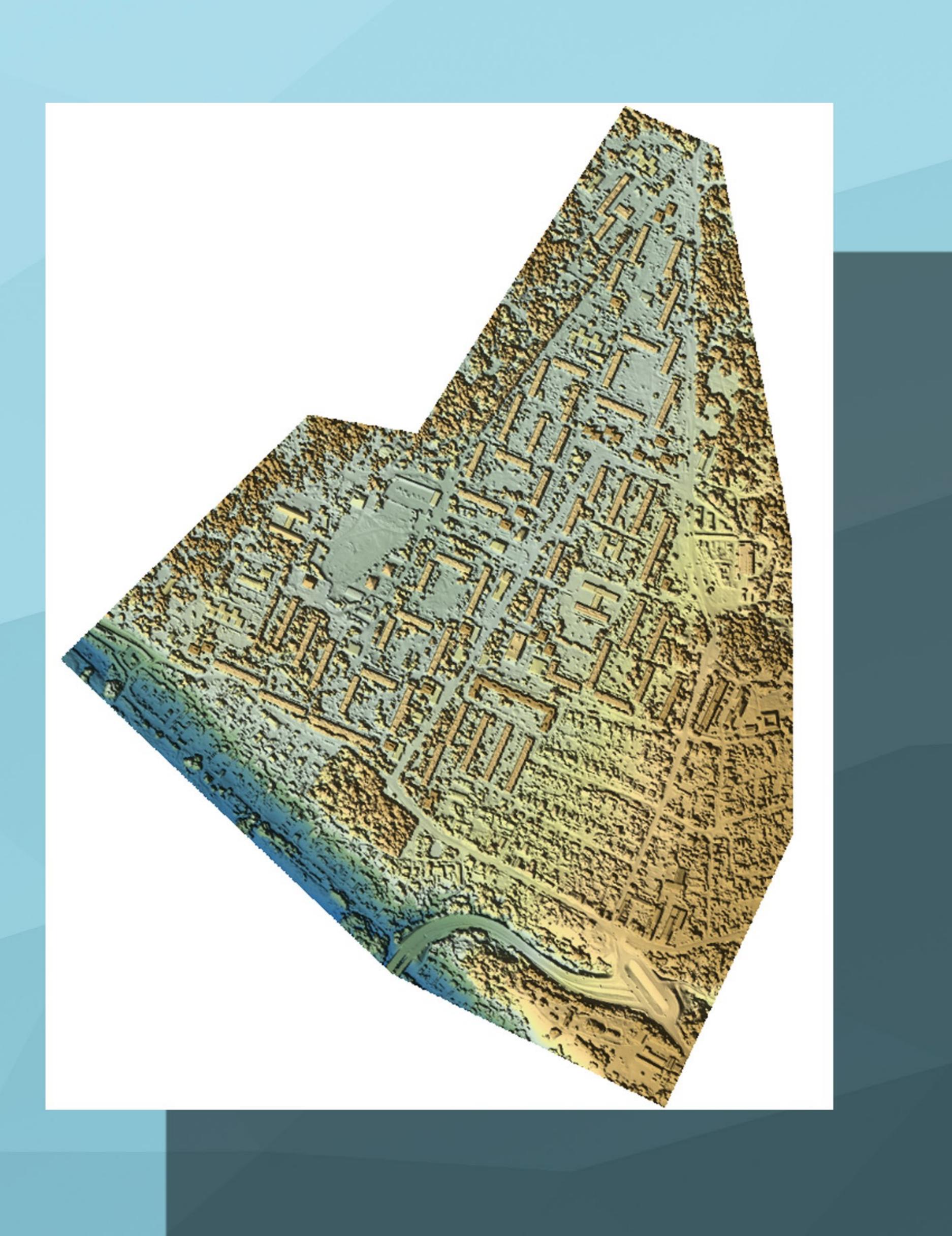
Construction

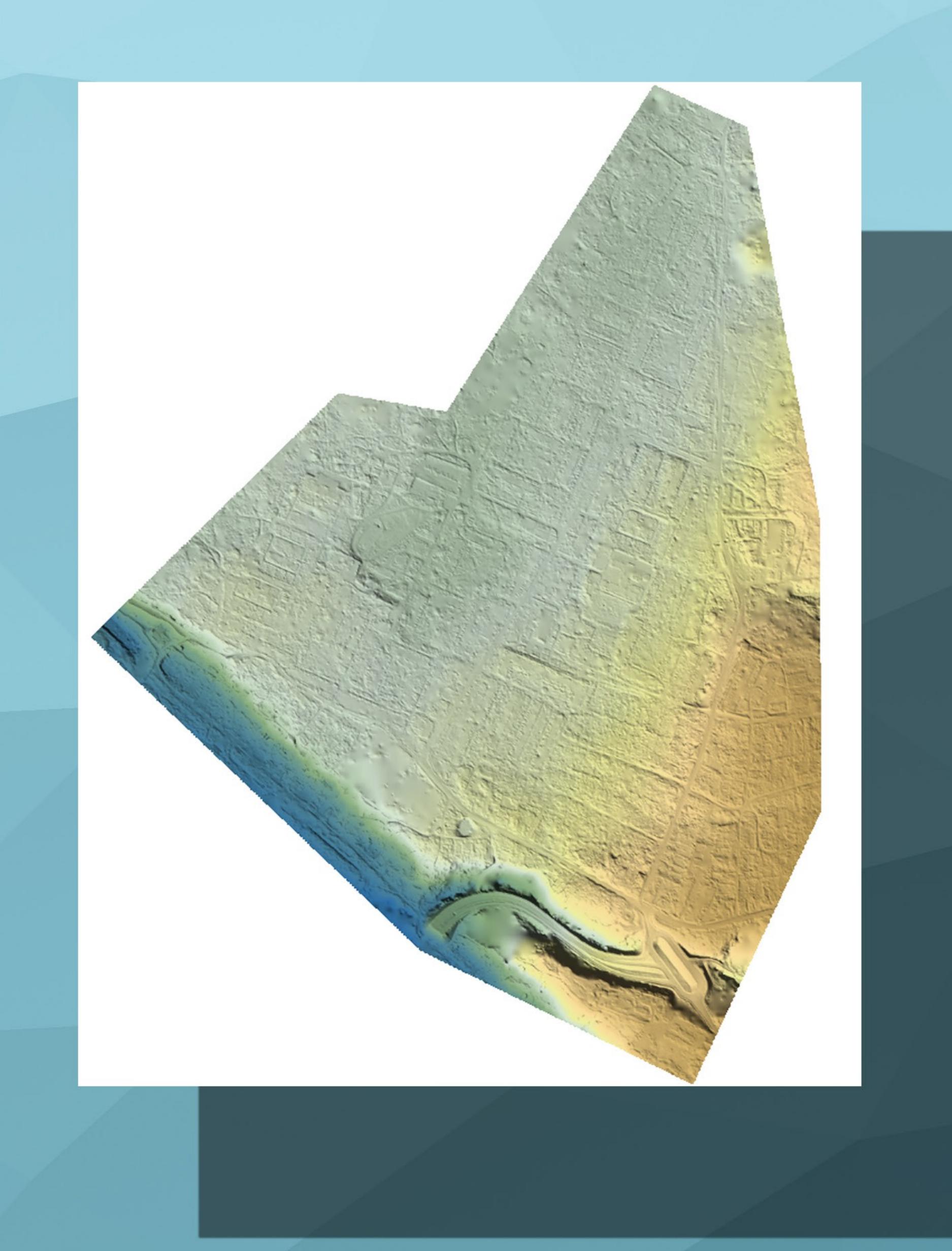
Tasks: creation of a 3D model of a construction site, a digital terrain and elevation model, and an orthophoto; 3D modeling for calculating the volume of excavations, bulk materials, and construction debris.

Equipment: DJI Phantom 4, Canon PowerShot A2500, smartphone, total station, GNSS reciever.

Software: Agisoft Metashape.







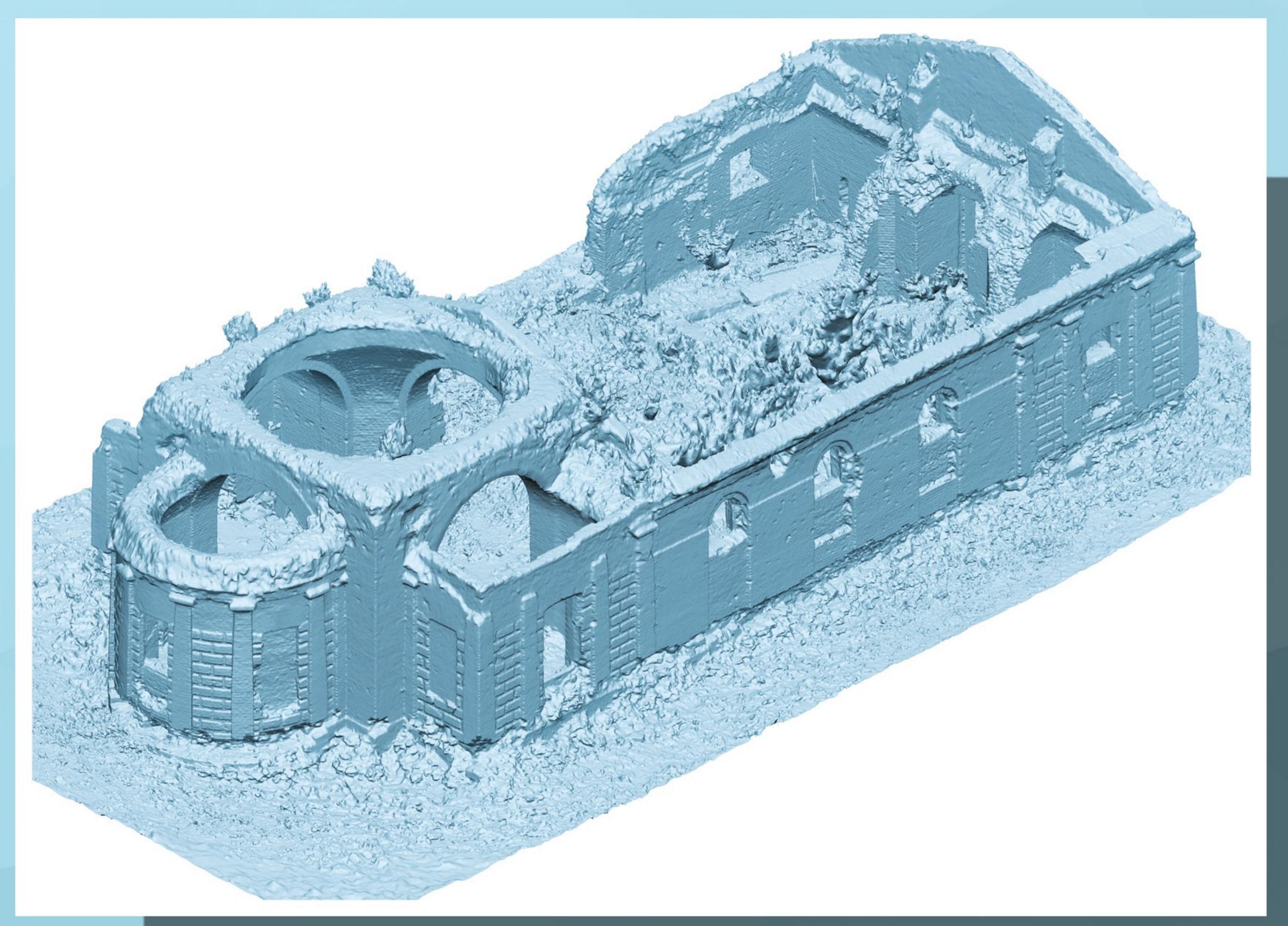


Aerial survey of large areas

Task: creation of a 3D model of the microdistrict "Bor" of the city of Aleksin, Tula region; creation of orthomosaic, DSM, DEM.

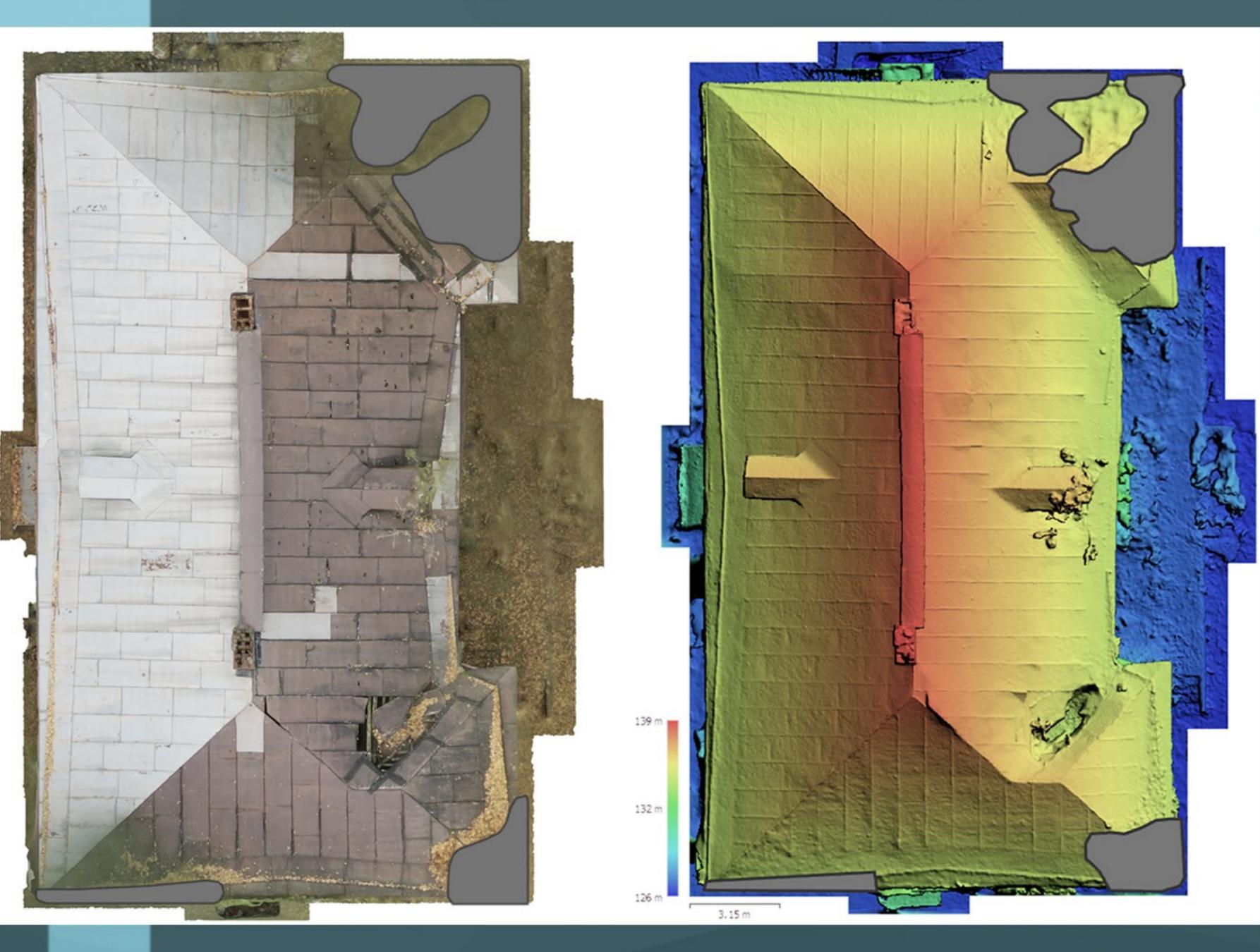
Equipment: DJI Mavic Air 2.

Soft: Agisoft Metashape, Bentley ContextCapture.













Buildings / Structures

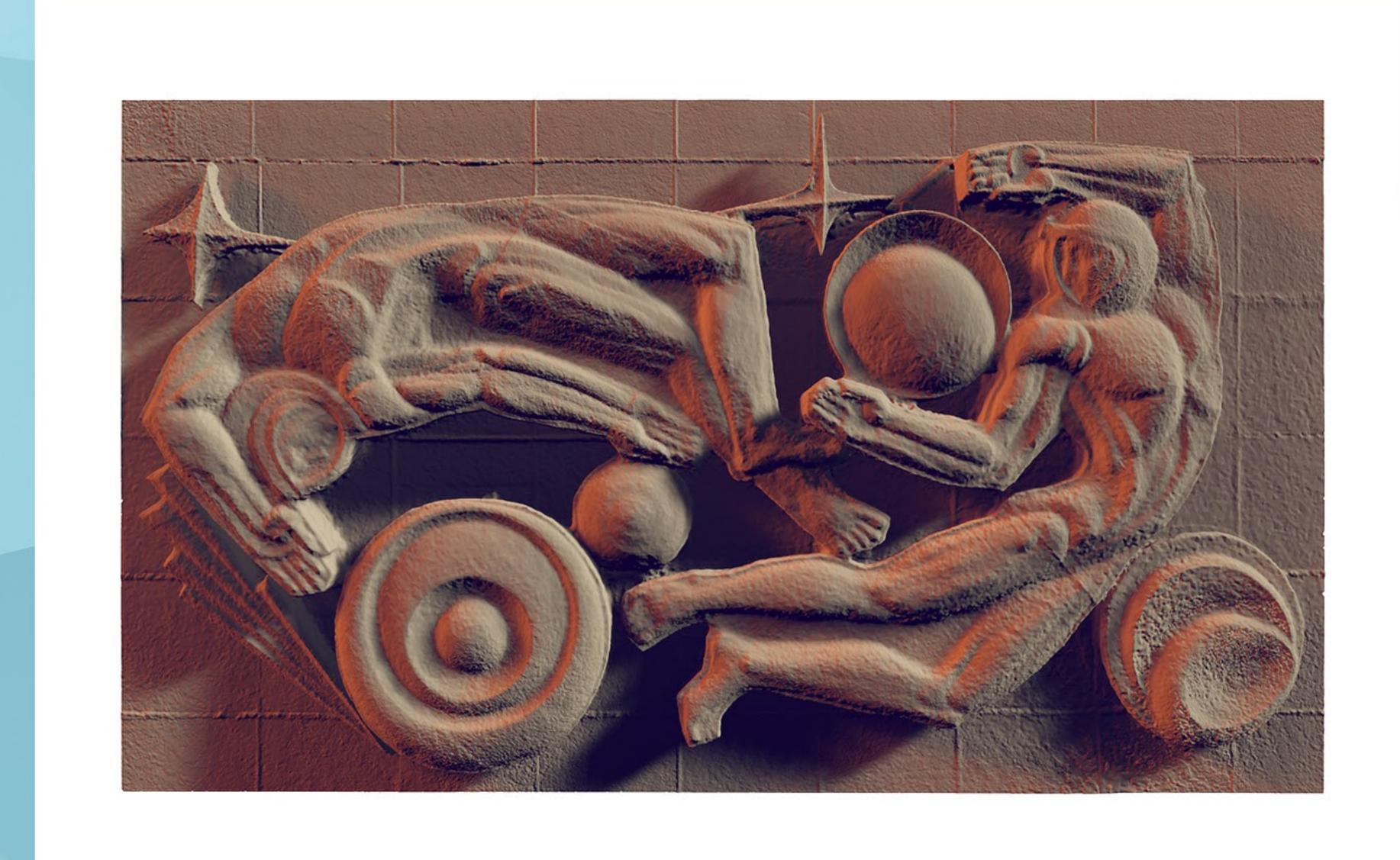
Task: creation of 3D models of existing buildings, structures; creation of orthophotos of facades, interiors, roofs; analysis of the external state.

Equipment: GoPro Hero6 Black, DJI Mavic Air 2, smartphone.

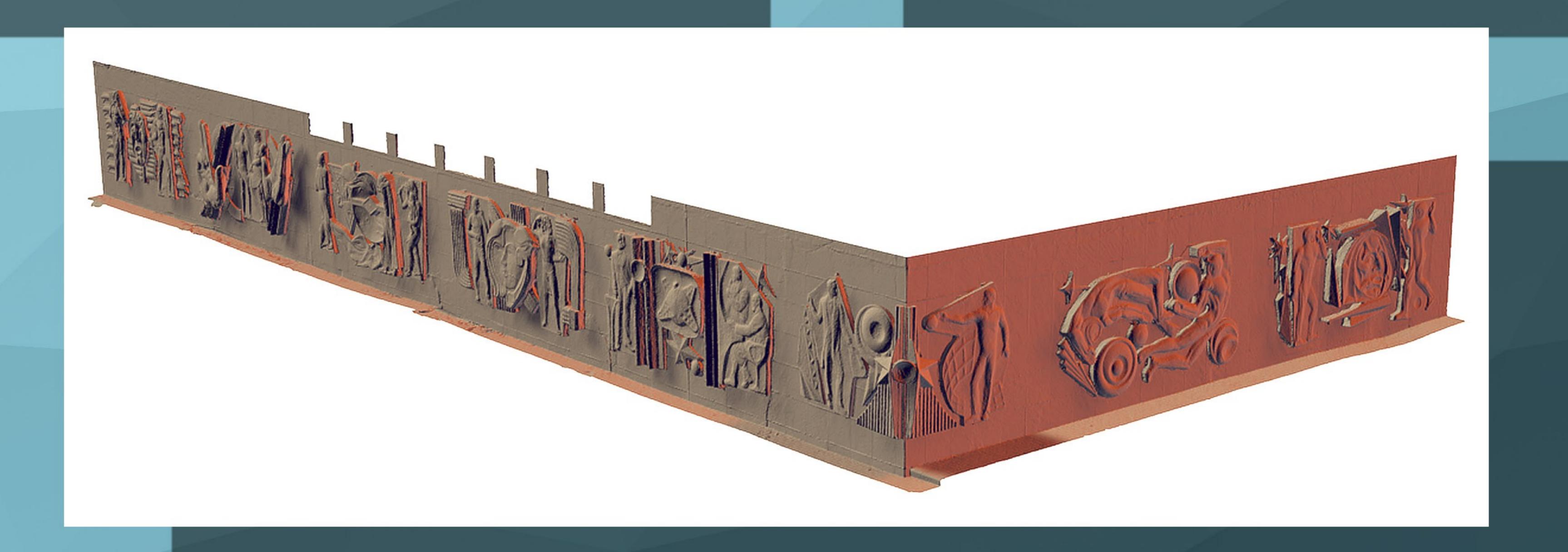
Soft: Agisoft Metashape, Meshmixer.









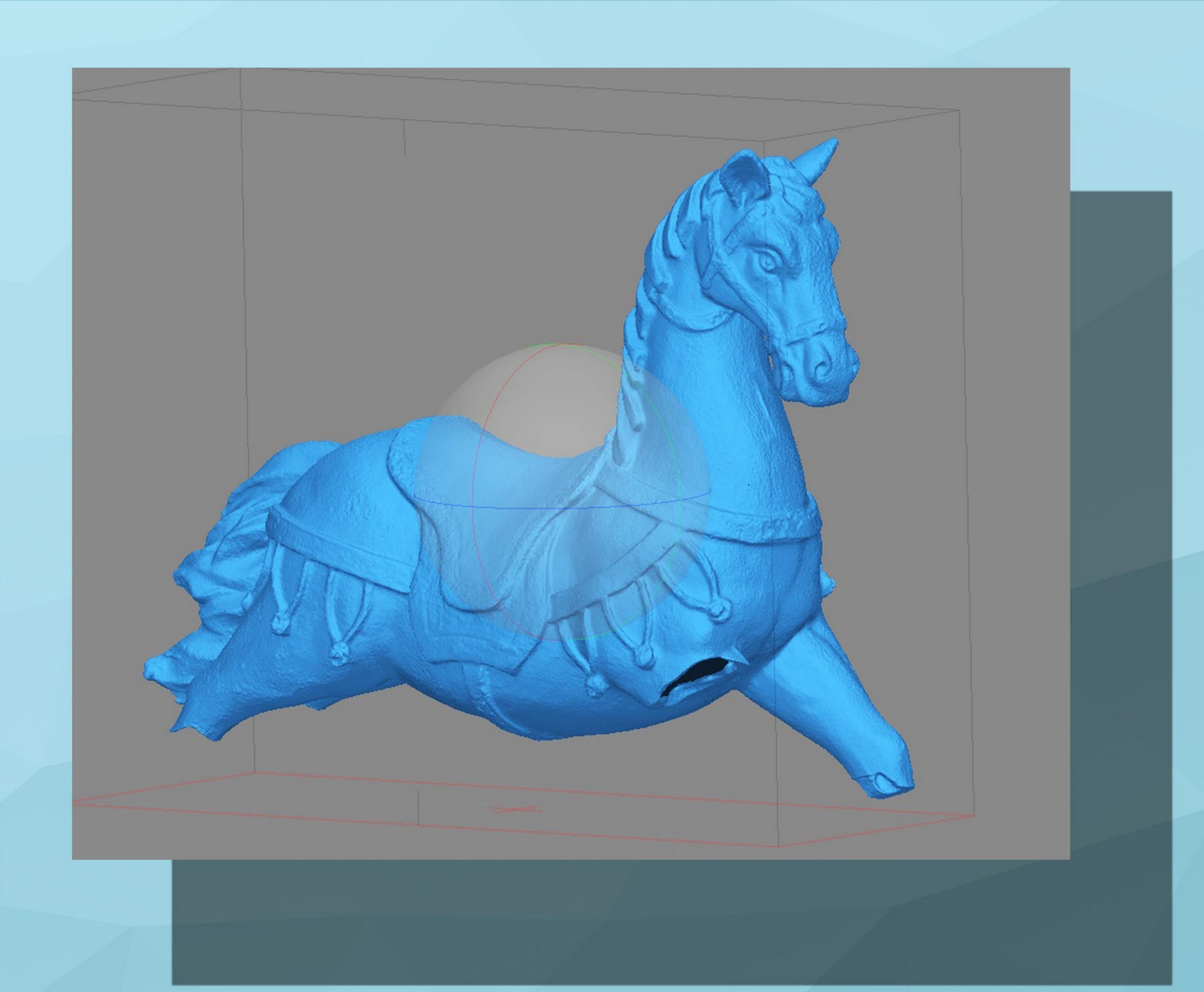


Bas-relief

Task: creation of a 3D model of a bas-relief (Pskov, Russia).

Equipment: GoPro Hero6 Black.

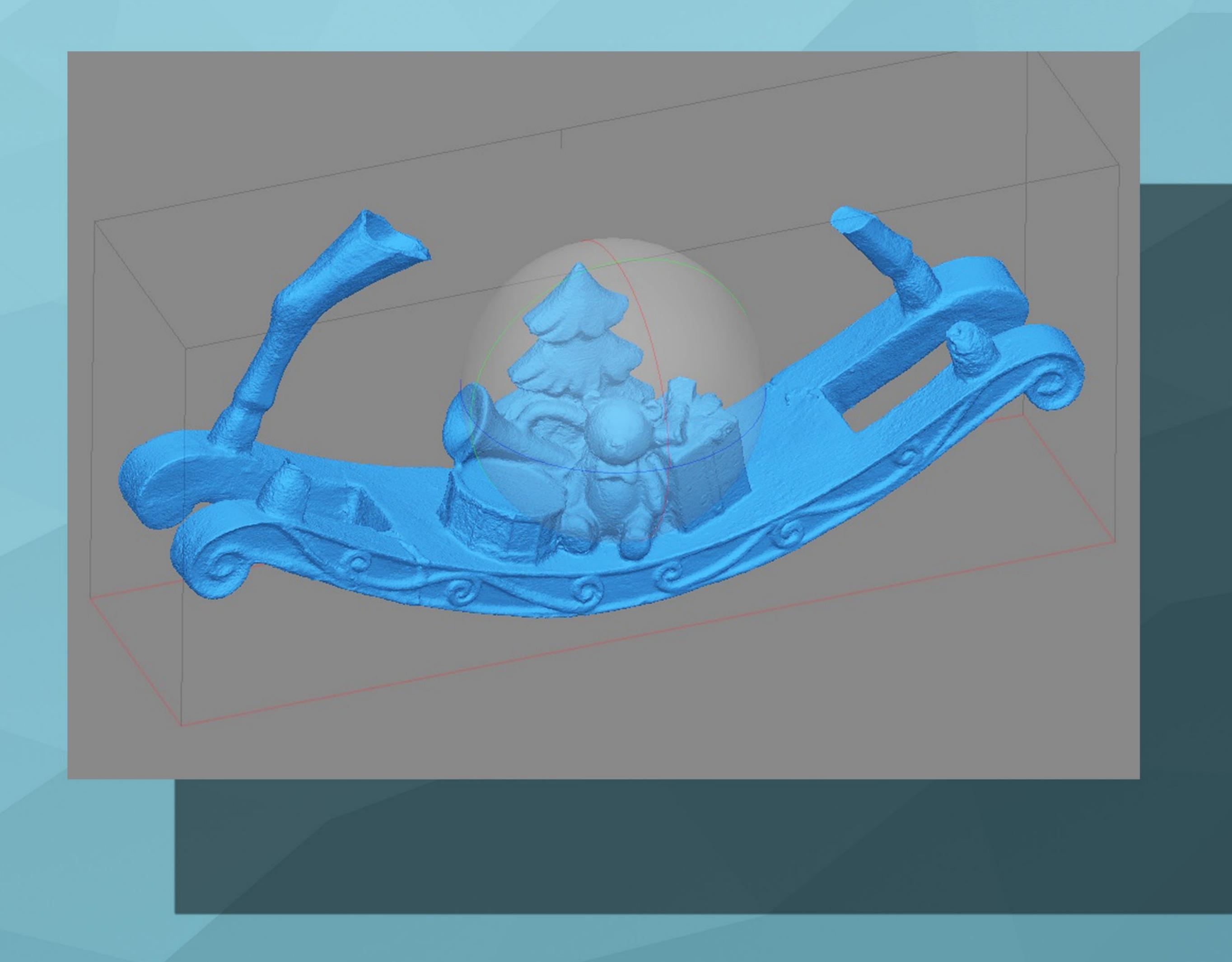
Soft: Agisoft Metashape.











Small items

Task: modeling of the lost elements of the statuette of a horse, and further printing of these elements on a 3D printer.

Equipment: Canon 60D, Anycubic Photon 3D printer.

Soft: Agisoft Metashape, Meshmixer, Blender.

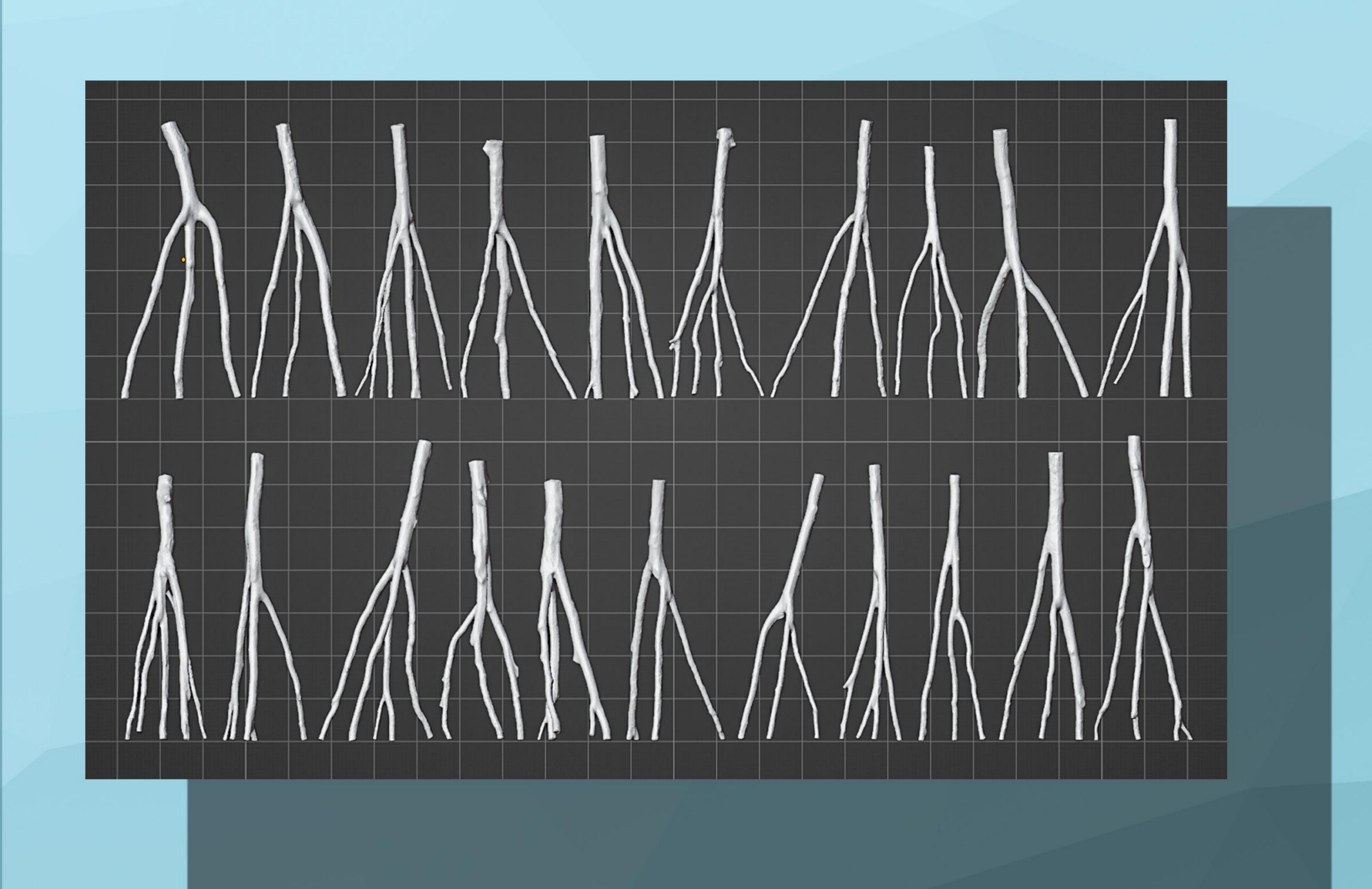


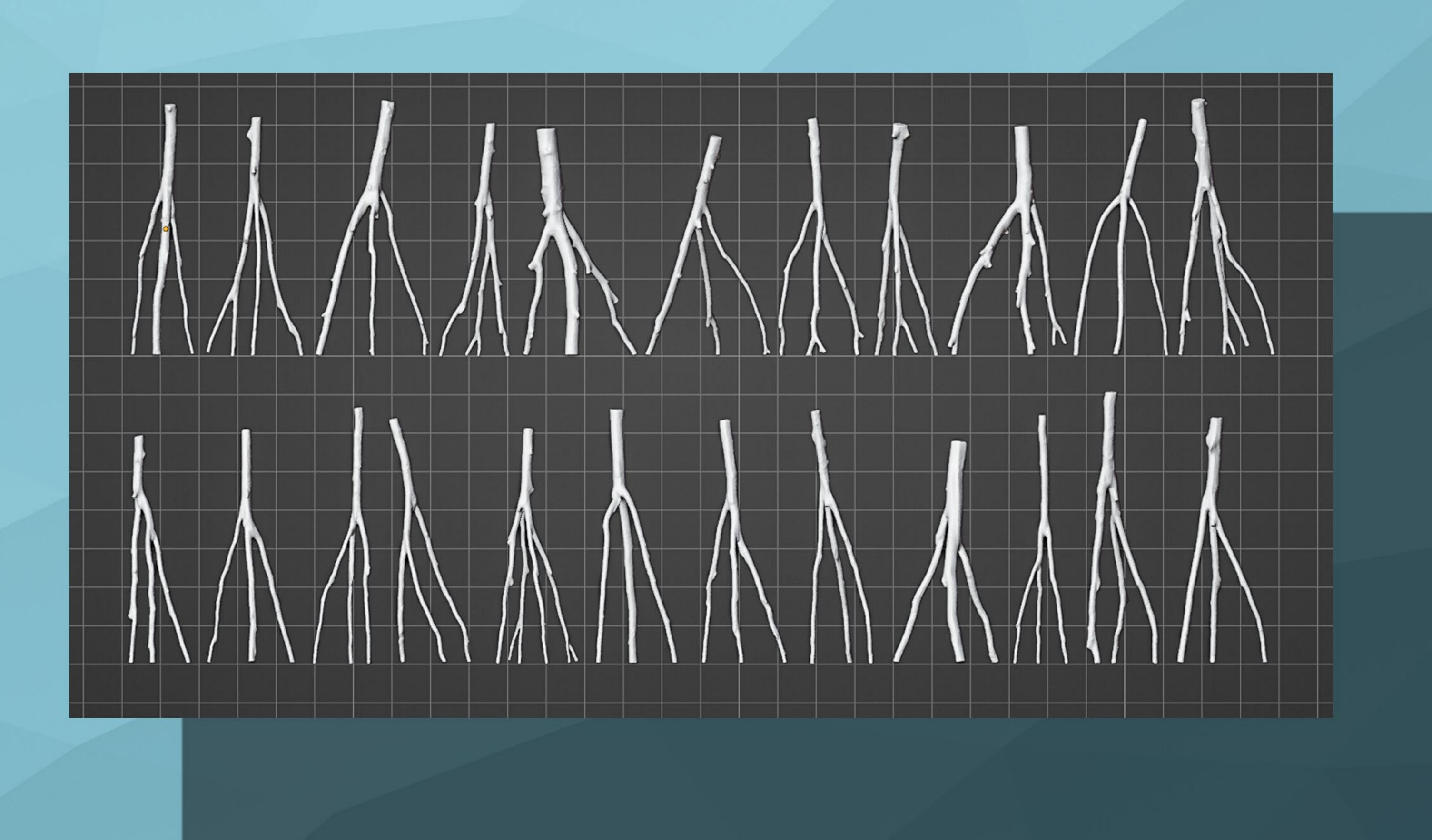
Head / face / bust

Task: creation of a 3D model of the bust / head / face of a real person based on video footage; 3D printing of the model.

Equipment: Redmi Note 7 smartphone, Flying Bear Tornado 2 Pro 3D printer.

Soft: Agisoft Metashape, Meshmixer.







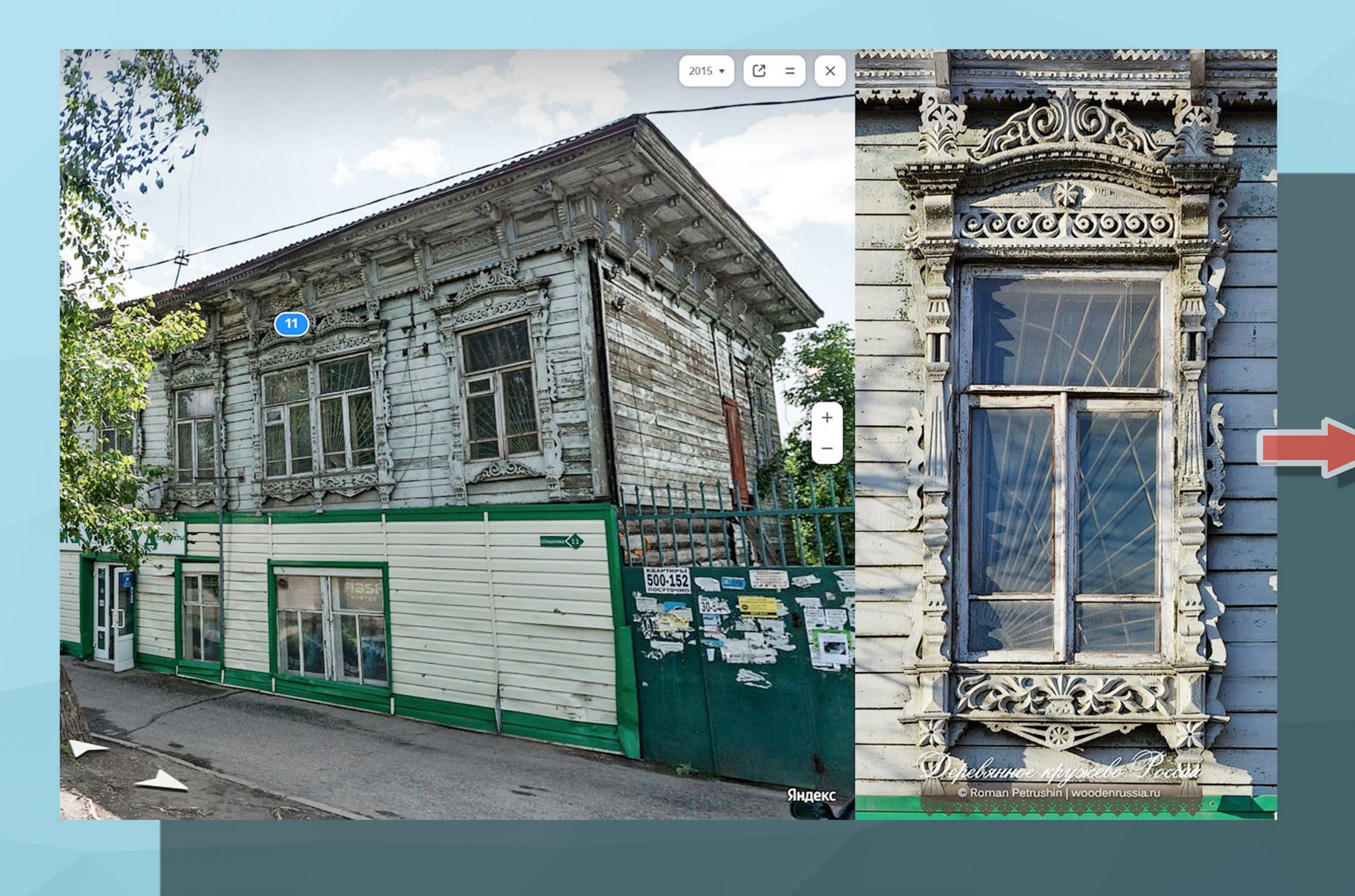


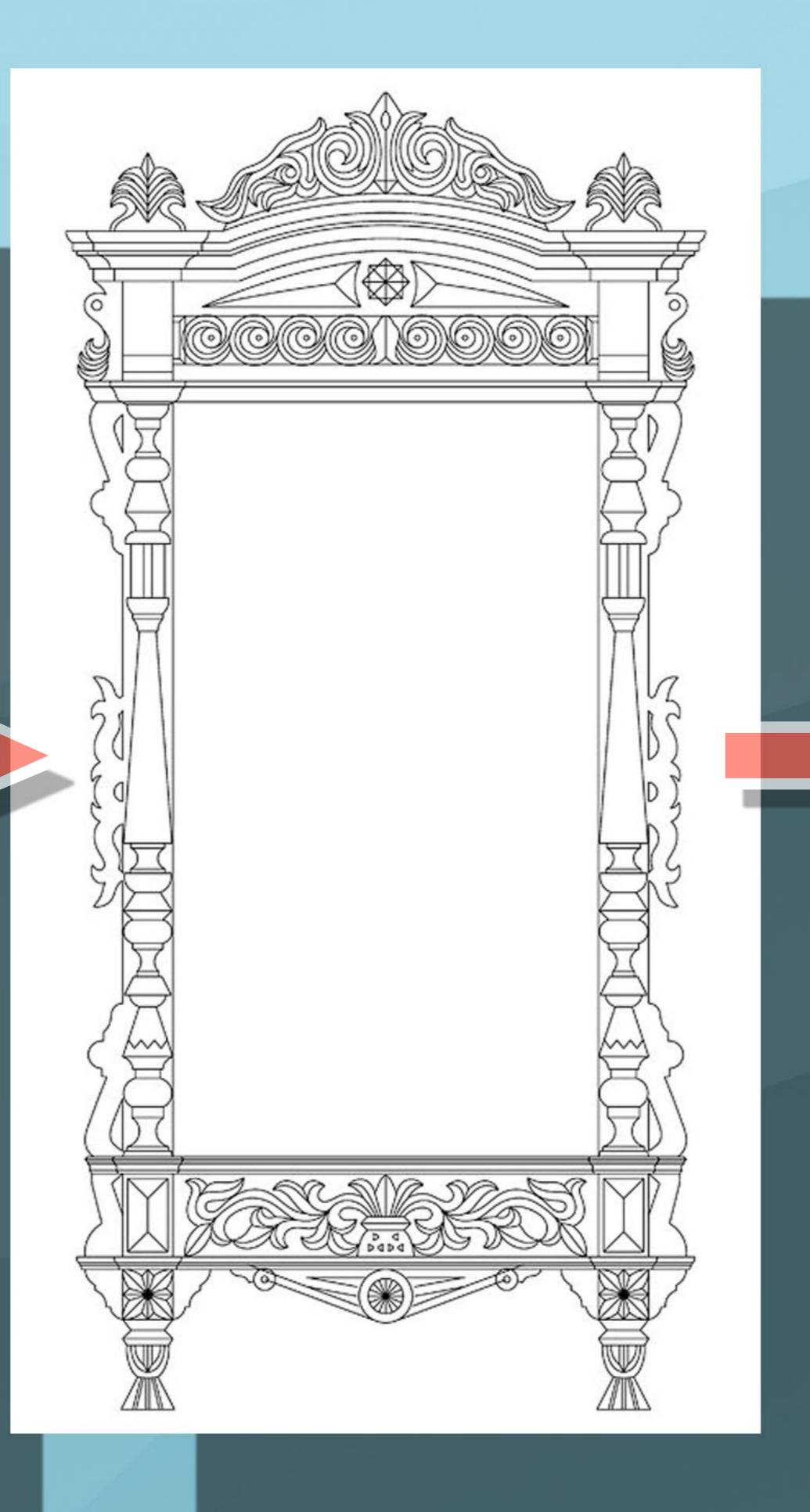
Tree trunks

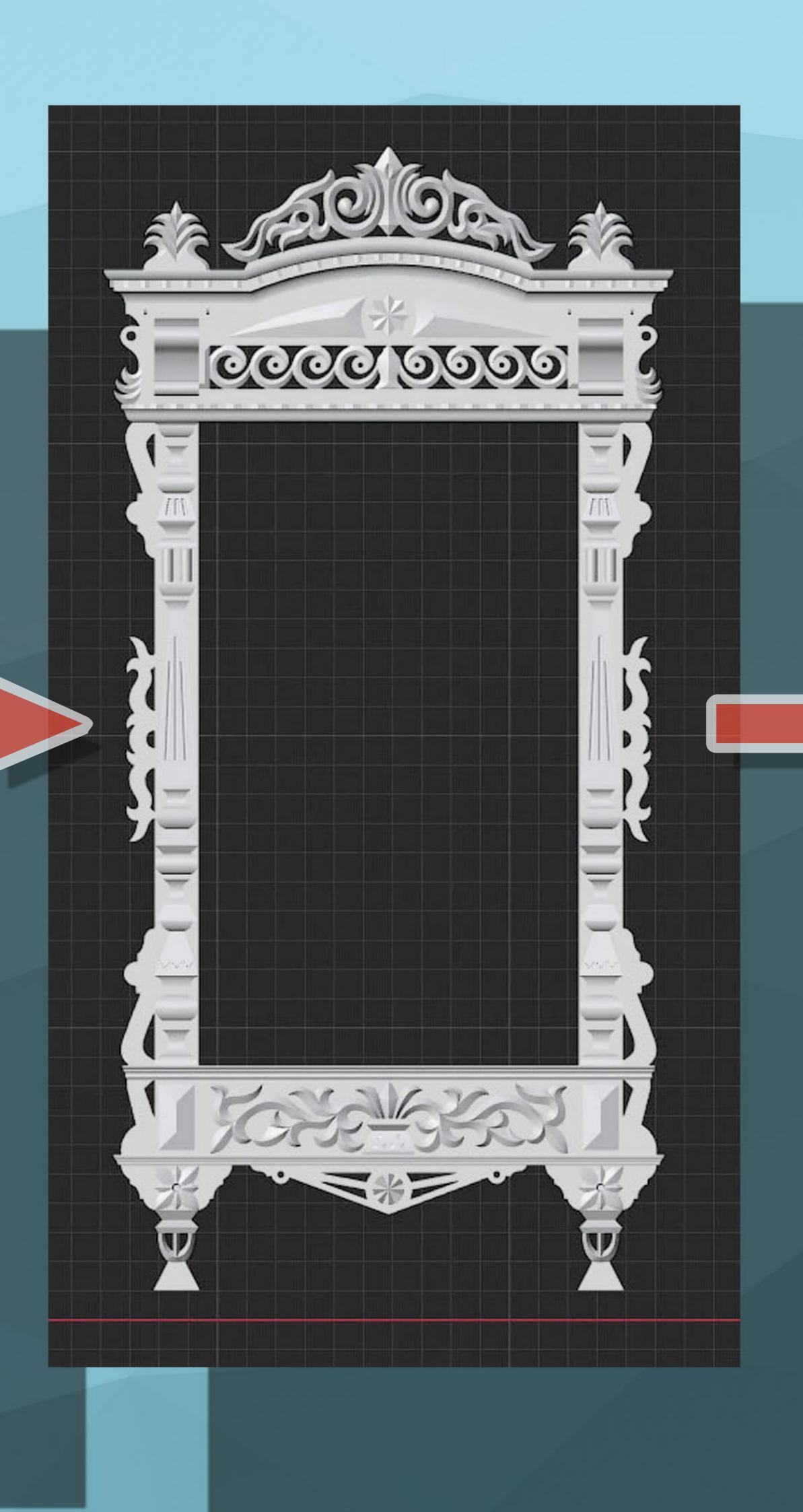
Task: creation of models of tree trunks while maintaining real proportions and sizes.

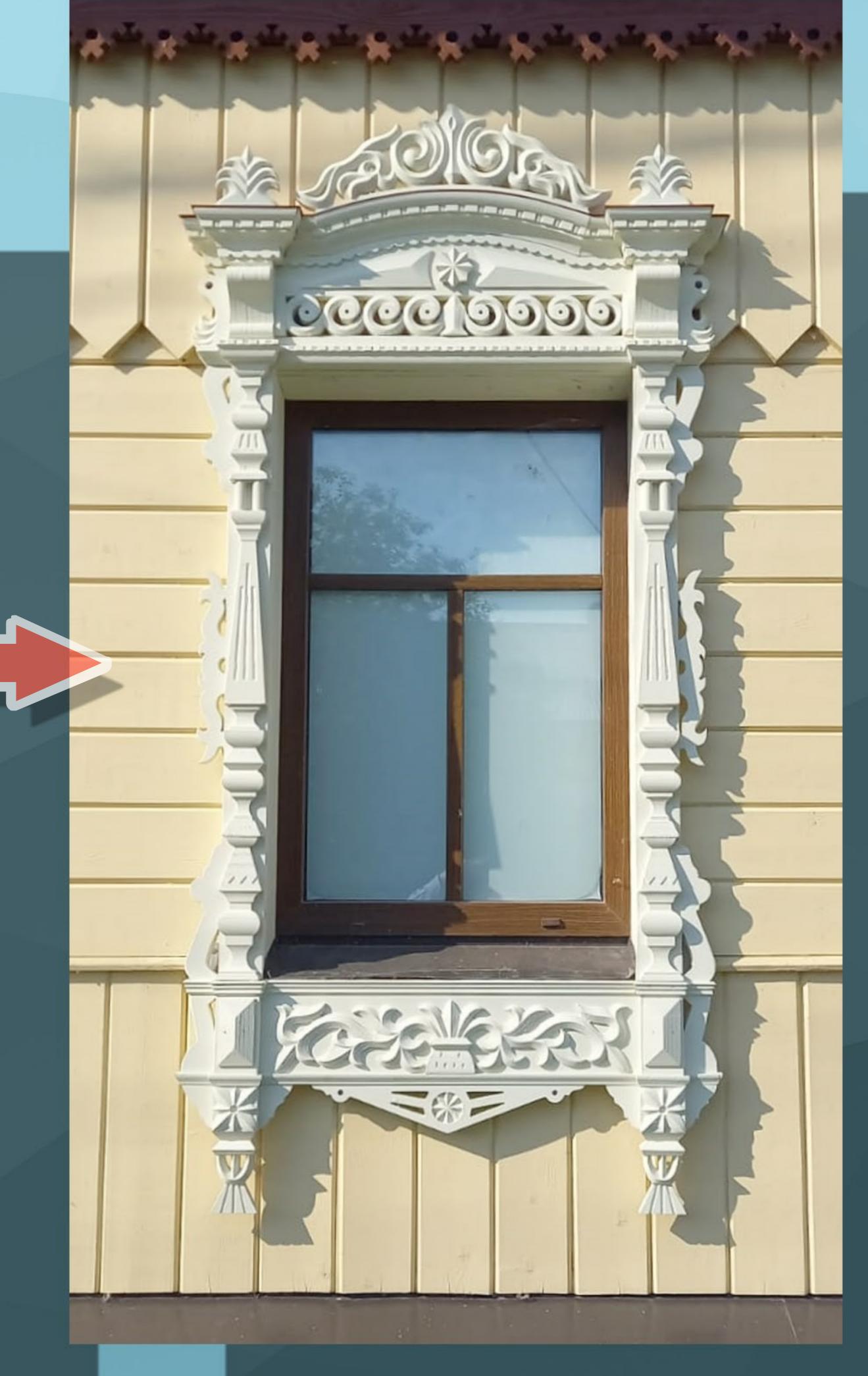
Equipment: smartphone camera.

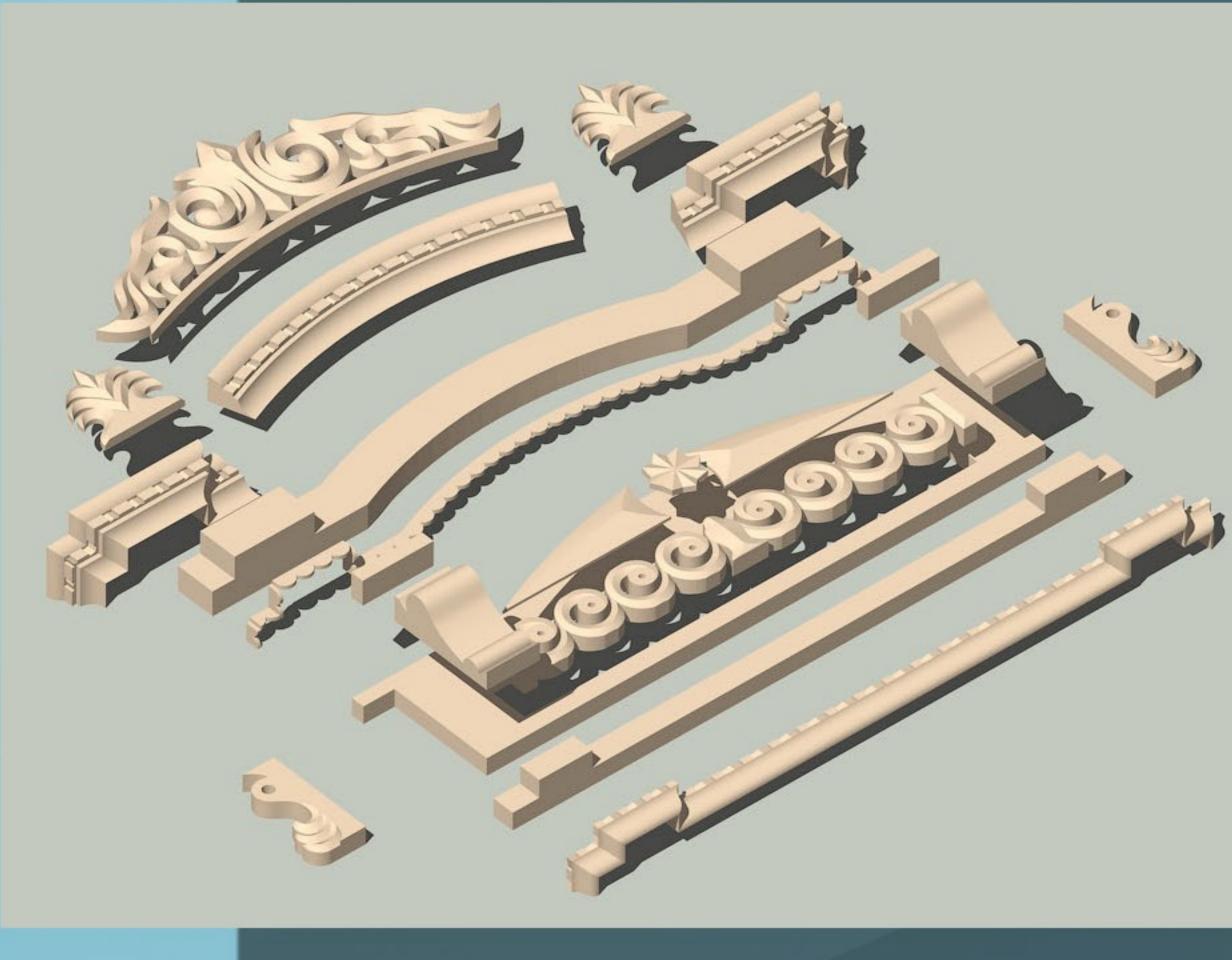
Soft: Agisoft Metashape, Meshmixer.

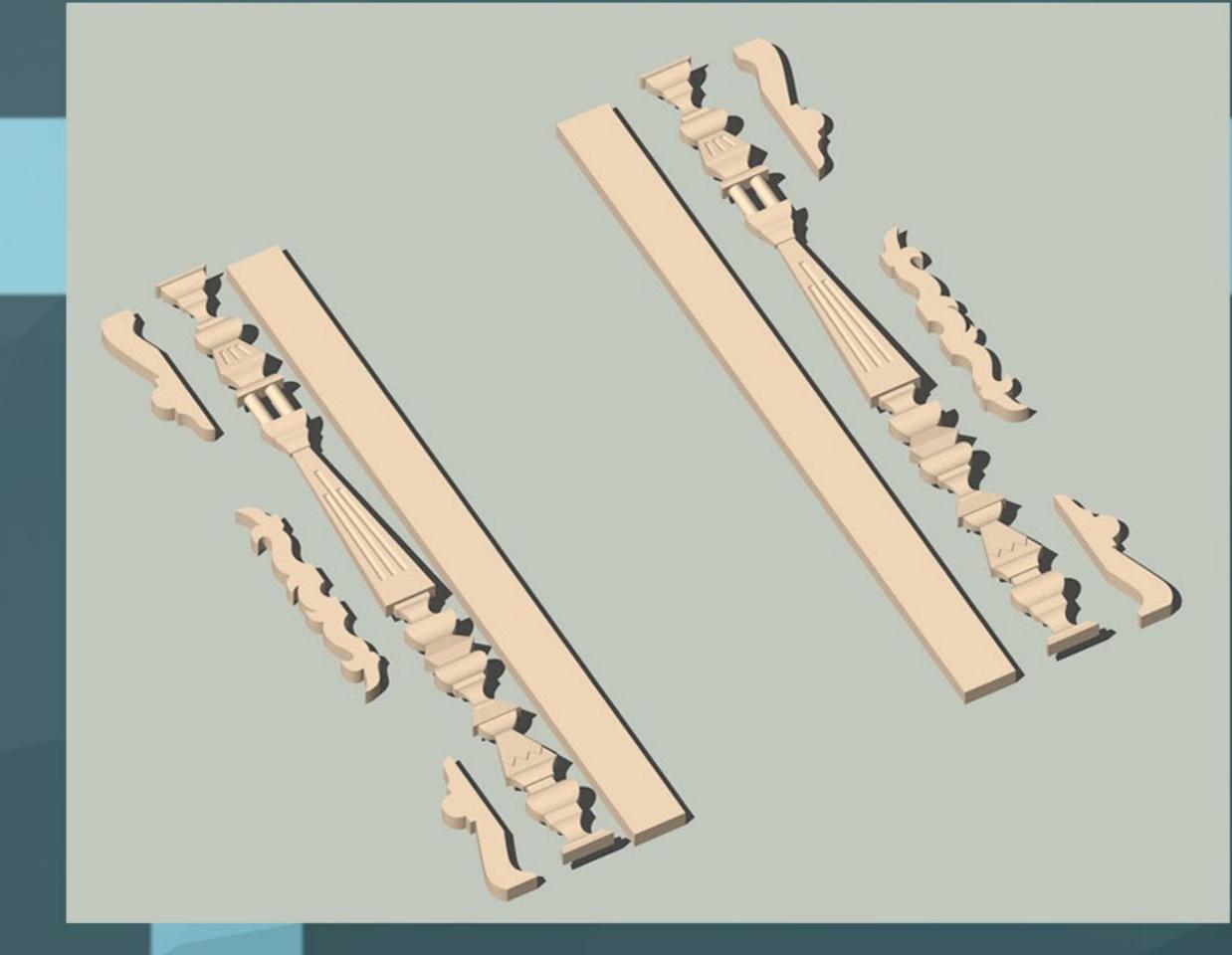


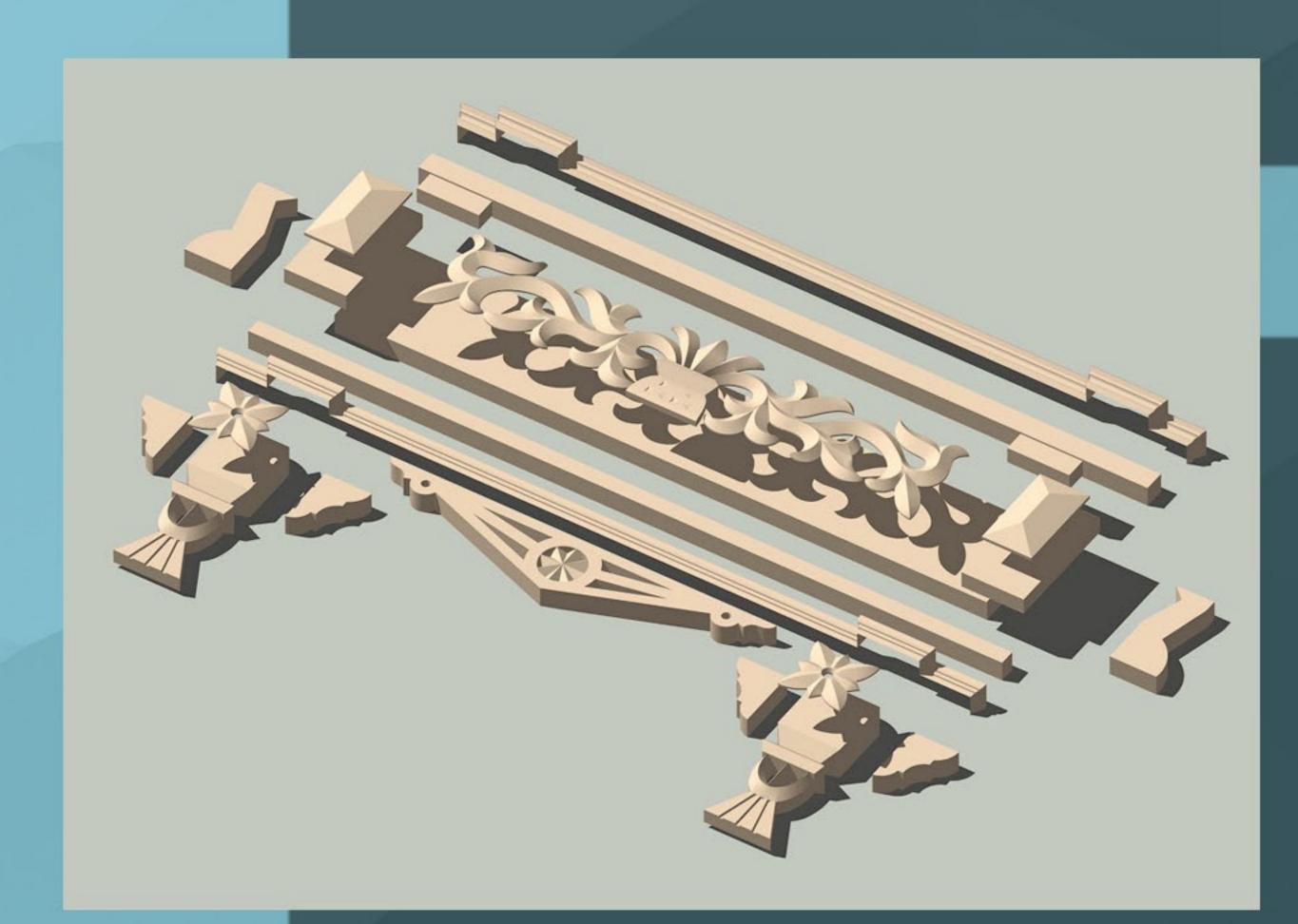


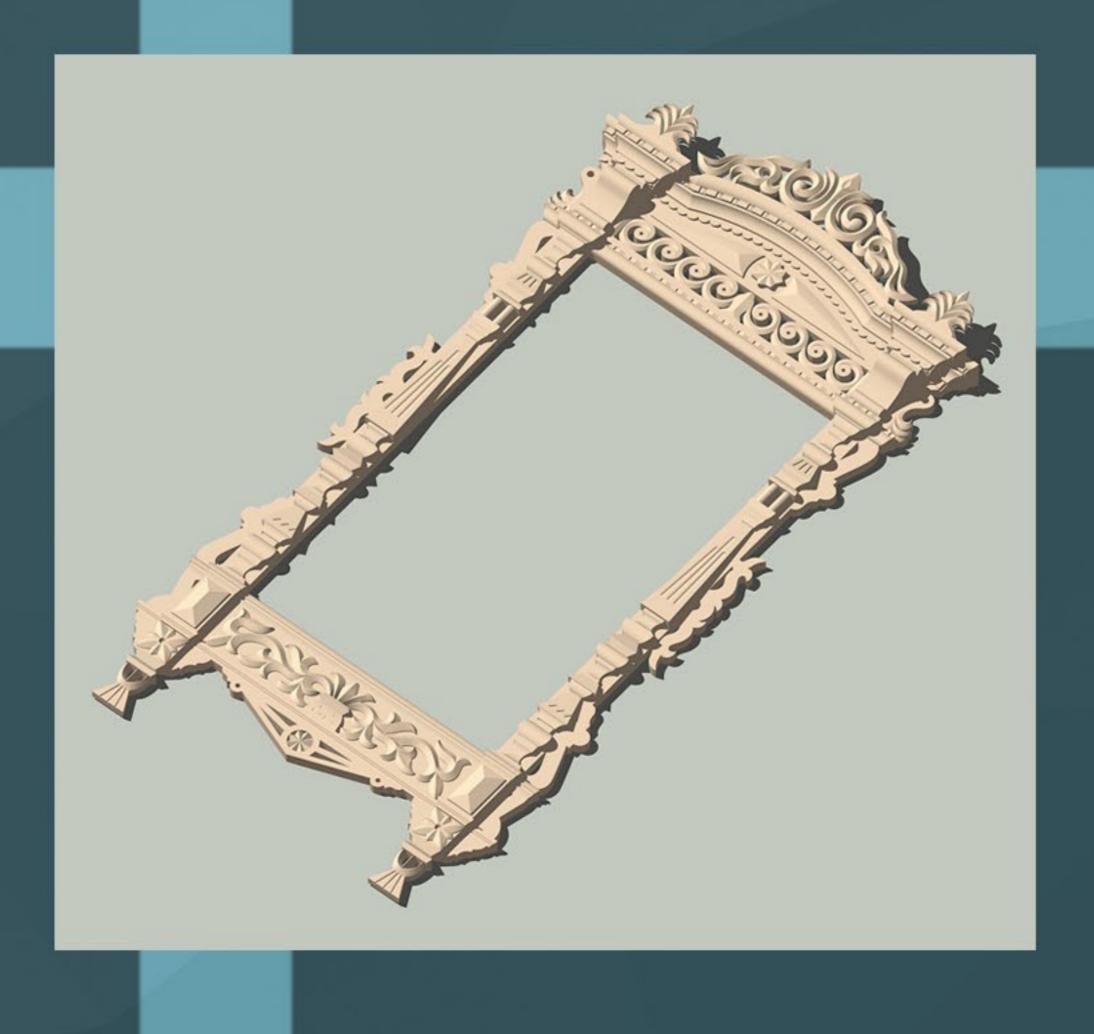












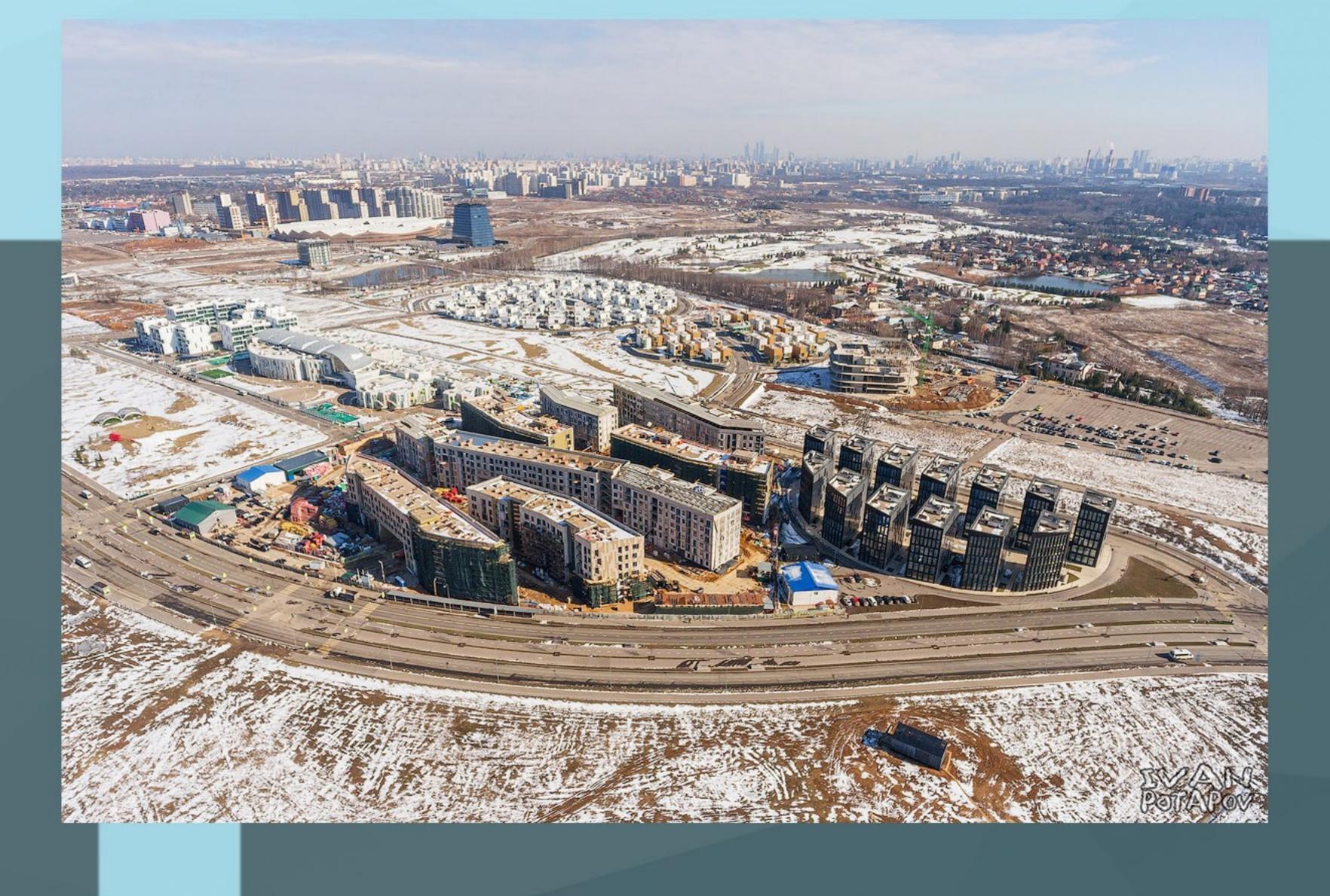
3D modeling based on single images

Task: to create a 3D model of the architraves for the subsequent production of a copy for the window of the required dimensions.

Data source: photographic materials from the Internet depicting a lost building with window architraves.

Soft: Inkscape, Sketchup.



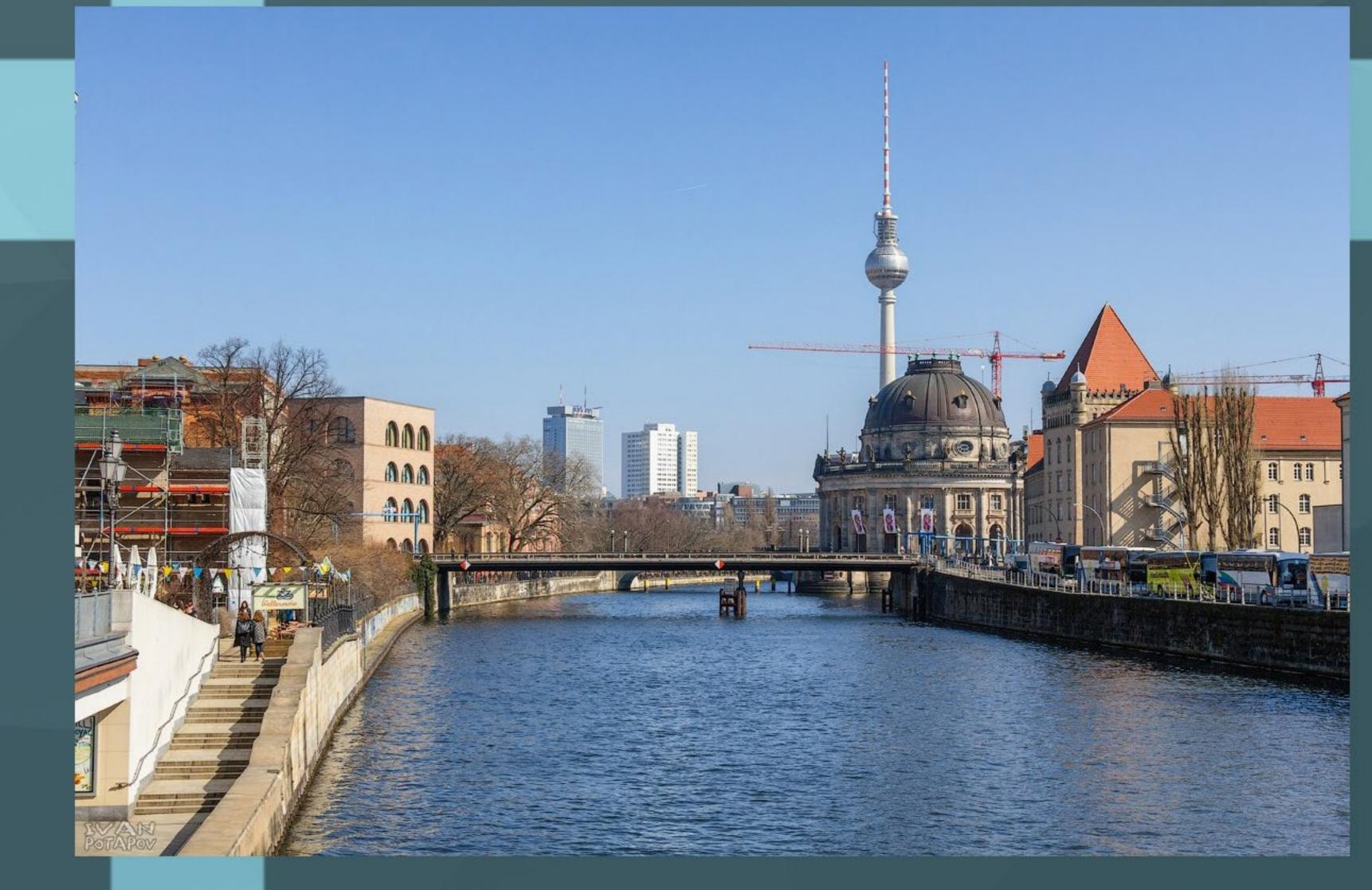


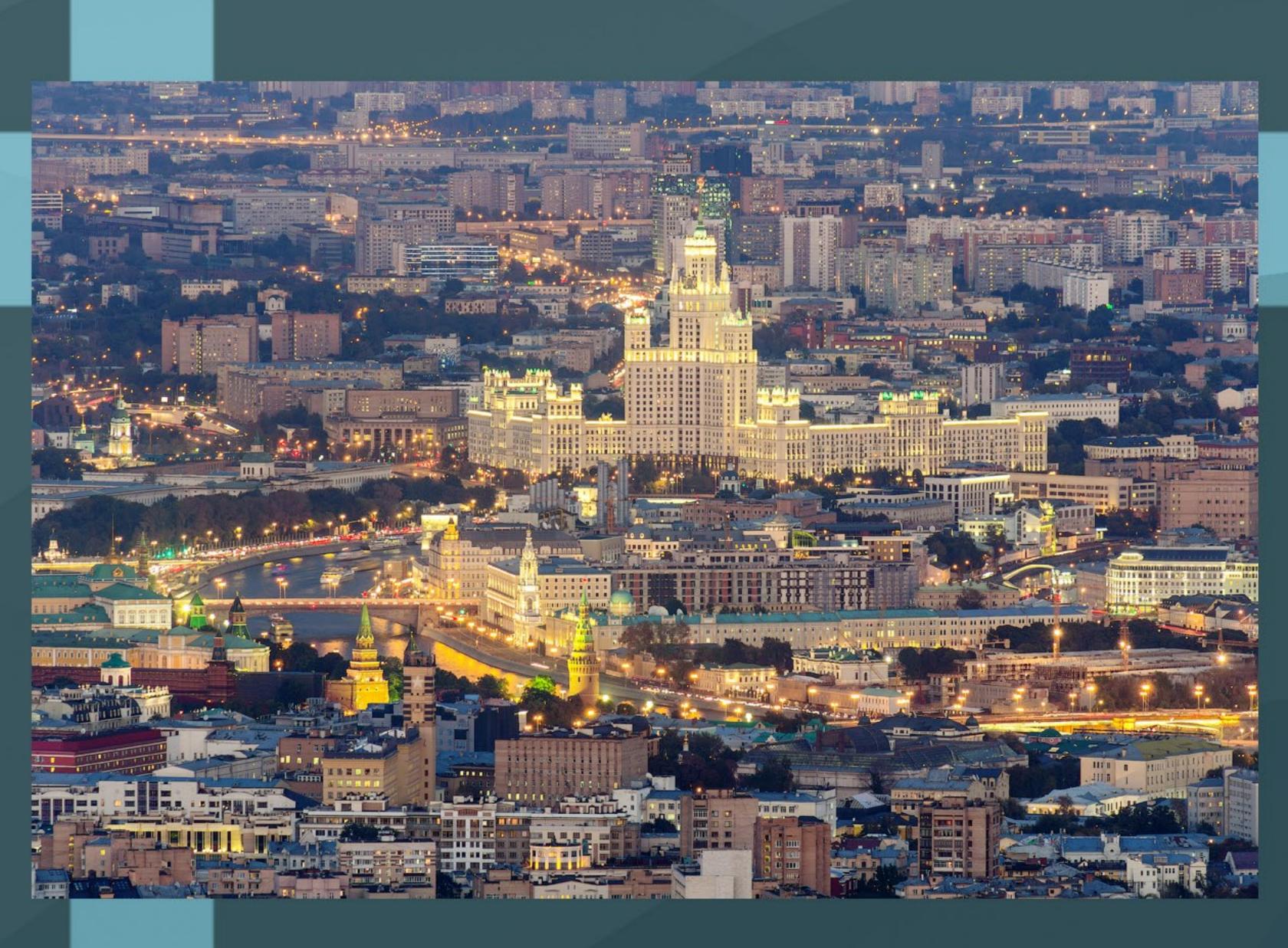














Photography

Task: to draw inspiration, broaden horizons, enjoy the world around, nature, cities, and share it with others.

Equipment: Canon EOS 60D, DJI Phantom 4, DJI Mavic Air 2.

Soft: Adobe Photoshop.