TIQXMMI
Тошкент Ирригация ва Қишлоқ Хўжалигини Механизациялаш Муҳандислари Институти

YRB
YER RESURSLARINI BOSHQARISH FAKULTETI

G VA GI
GEODEZIYA VA GEOINFORMATIKA

“Замонавий геодезик асбоблар” *фанидан*

14-мавзу: Дрон қийматларини дастурий таъминотда қайта ишлаш

Маърузачи: доцент Инамов Азиз Низамович

Reja.

1, Agisoft photo scane dasturi xaqida ma`lumotlar
2, Agisoft photo scane dasturini yuklab olish va o`rnatish
3, Agisoft photo scane dasturini aktivlashtirish
4, Agisoft photo scane dasturida ishlash

1, Agisoft photo scane dasturi xaqida ma`lumotlar

Agisoft PhotoScan - bu professional 3D-model yaratishga yo'naltirilgan zamonaviy asoslangan yechim sanalib, harakatsiz tasvirlardan sifatli 3D kontent. Eng ko'p o'lchamli 3D rekonstruktsiya texnologiyasiga asoslanib, u tasodifiy tasvirlar bilan ishlaydi hamda nazorat qilinadigan va nazoratsiz sharoitda samarali hisoblanadi. Rasmlar rekonstruksiya qilinadigan ob'ekt kamida ikkita fotosuratda bo`lishi hsart. Har ikkala rasmni moslashtirish va 3D modelni qayta tiklash to'liq avtomatlashtirilgan.

Agisoft photo scane dasturi asosan rastrlarni qoplanishini amalga oshirish orqali uch o`lchamli modellar yaratish mumkin. Dastur qoplangan rastrlardan nuqtalarning bulutli tasvirini hosil qiladi. Hosil bo`lgan bulutli nuqtalari birlashtiriladi. Natijada sirt hosil bo`ladi. So`ngra sirtga tekstura beriladi. Shu tariqa uch o`lchamli modellar yaratiladi.

Minimal konfiguratsiya talabi

• Windows XP yoki undan keyingi versiyalar (32 yoki 64 bit), Mac OS X Lioni yoki undan keyin, GLIBC bilan Debian / Ubuntu 2.13+ (64 bit)

• Intel Core 2 Duo protsessori yoki unga o'xshash

• 4 Gbayt RAM

Tavsiya etilgan konfiguratsiya

• Windows 7 SP 1 yoki undan keyingi versiyasi (64 bit), Mac OS X, GLIBC 2.13+ bilan Debian / Ubuntu (64 bit)

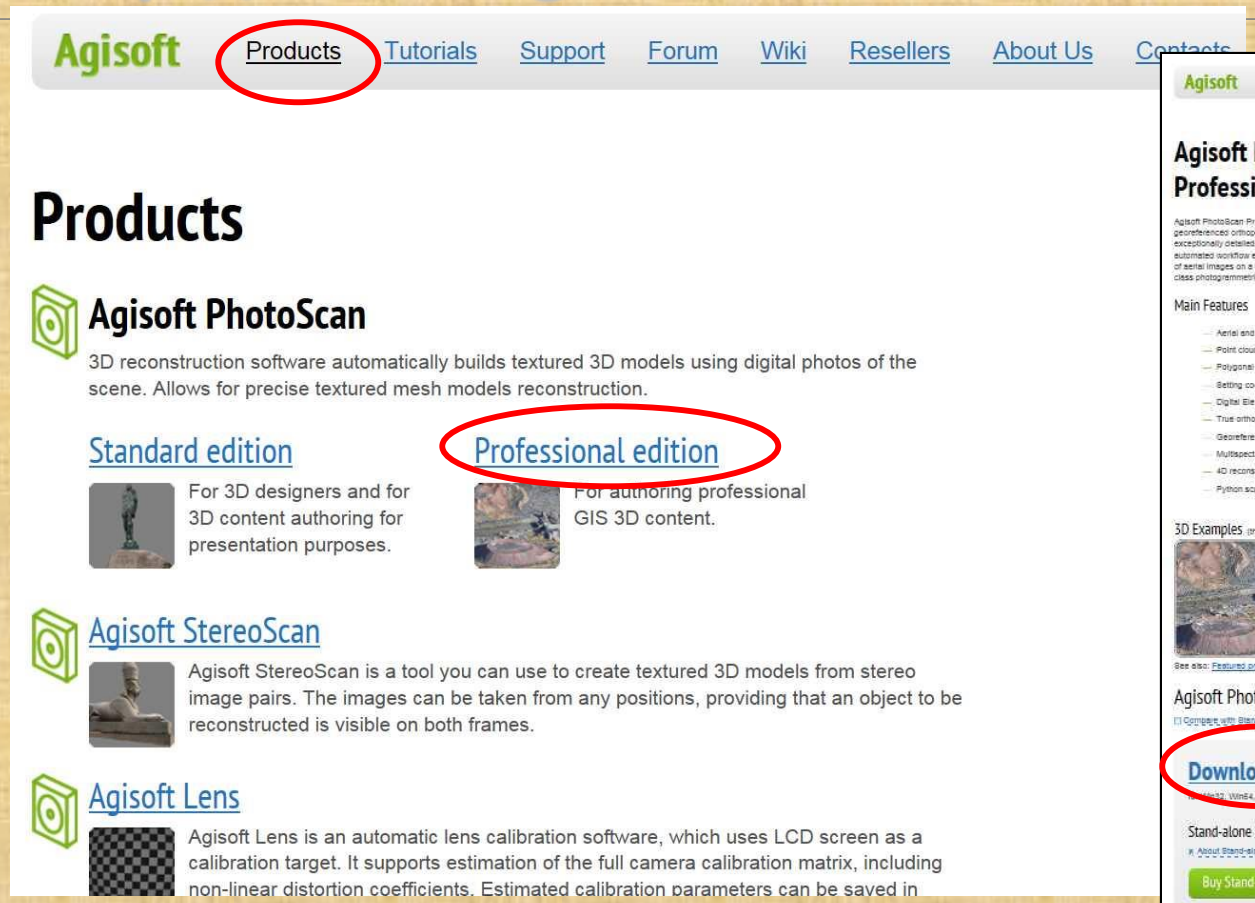
• Intel Core i7 protsessori

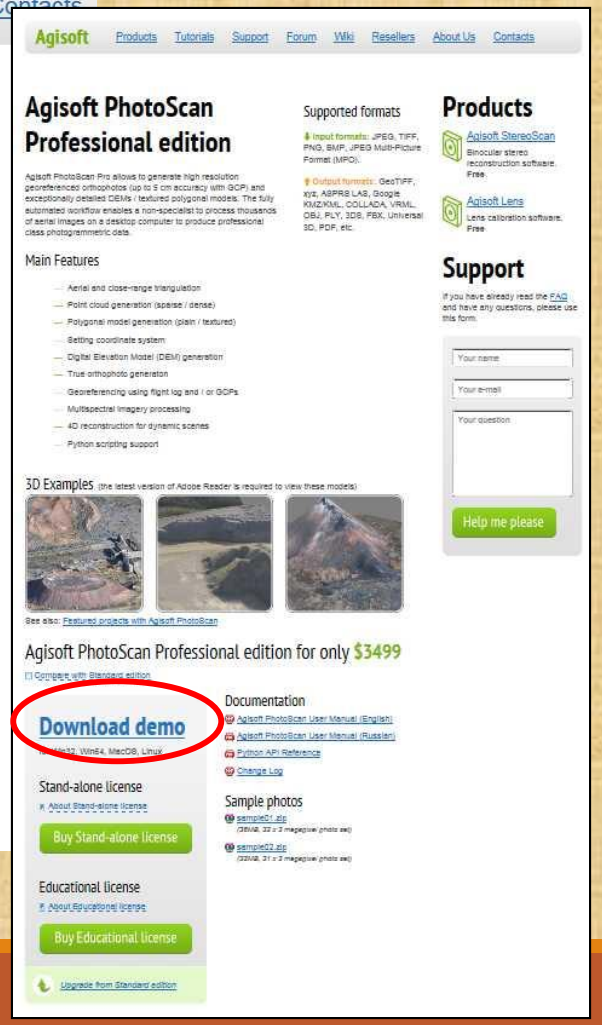
• 16 GB of RAM

PhotoScan tomonidan ishlov berish mumkin bo'lgan fotosuratlar soni mavjud RAMga bog'liq ishlatiladigan rekonstruksiya parametrlari. Agar bitta fotosurat o'lchamlari 10 MPix, 4 Gb ga teng bo'lsa RAM 30 dan 50 tagacha rasmga asoslangan modelni yaratish uchun etarli. 16 Gbayt operativ xotirada 300-400 fotosuratni ishlashga imkon beradi.

2, Agisoft photo scane dasturini yuklab olish va o`rnatish

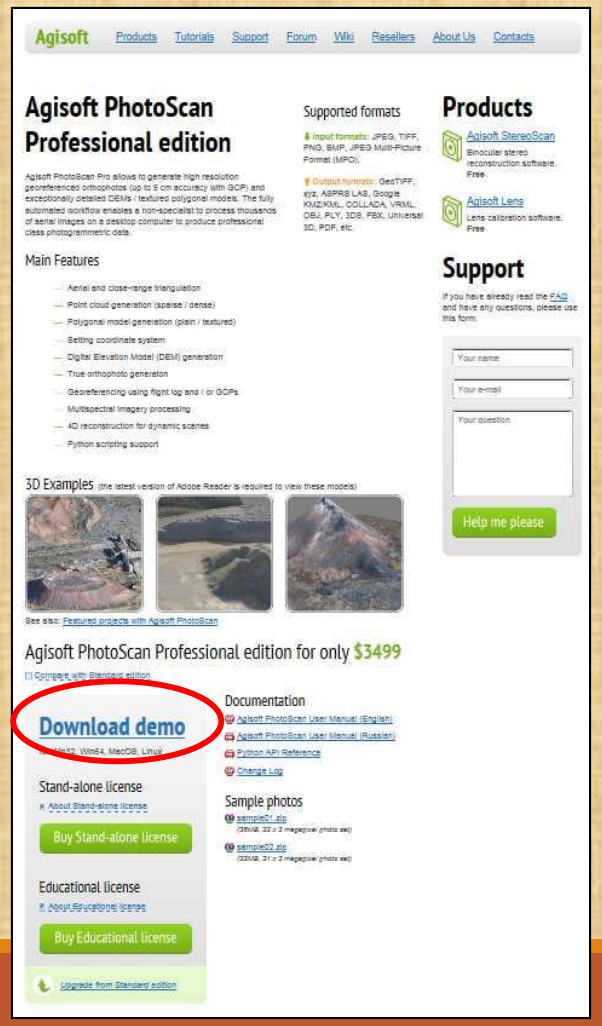
http://www.agisoft.ru

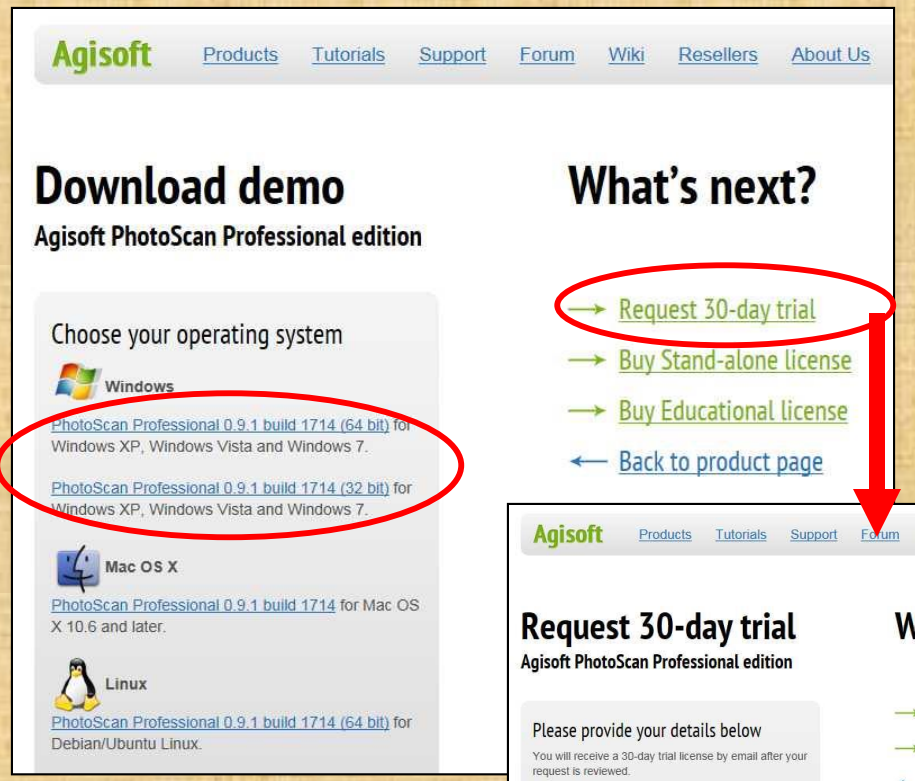


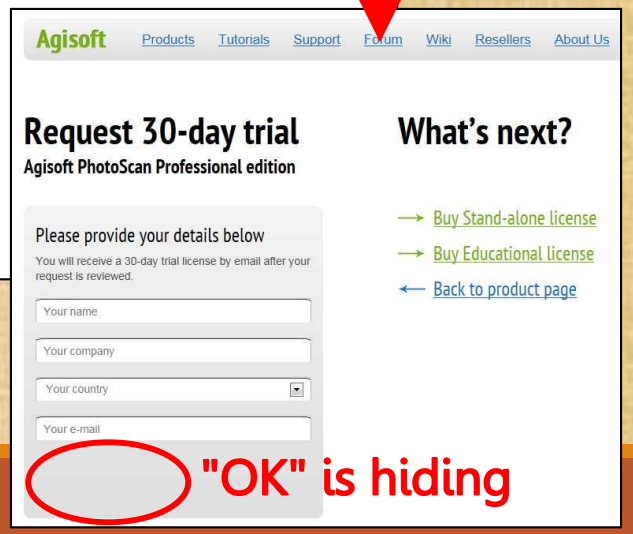


3. Agisoft photo scane dasturni aktivlashtirish

http://www.agisoft.ru







Please provide contact data in the form below. The trial license will be sent to the e-mail indicated. The key will allow to activate *Agisoft PhotoScan Professional* software and test it in full function mode for 30 days.

If you would like to test *Agisoft PhotoScan Standard*, please contact us at **info@agisoft.com**

YOUR NAME

CONTACT E-MAIL

YOUR COMPANY

YOUR COUNTRY

SEND

Trial request submitted. Thank you for contacting us.

BACK

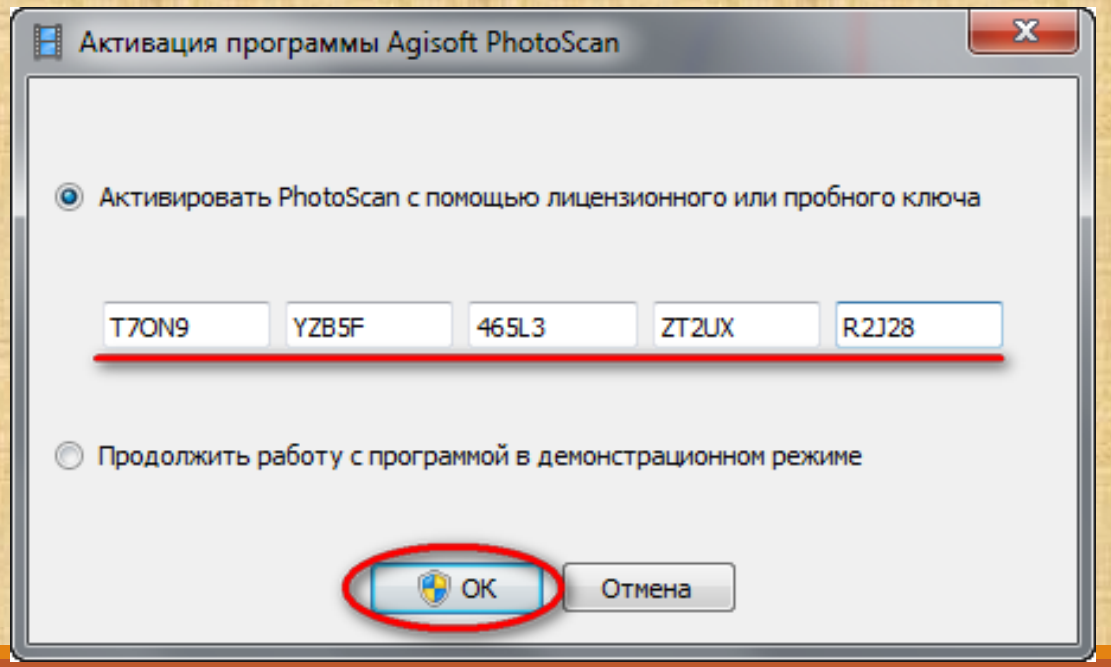
Thank you for your interest in our software.

Please use the following registration number as a 30-day trial License Key:
T7ON9-YZB5F-465L3-ZT2UX-R2J28

Agisoft PhotoScan Professional installer file is available for downloading at:
http://www.agisoft.com/downloads/installer/

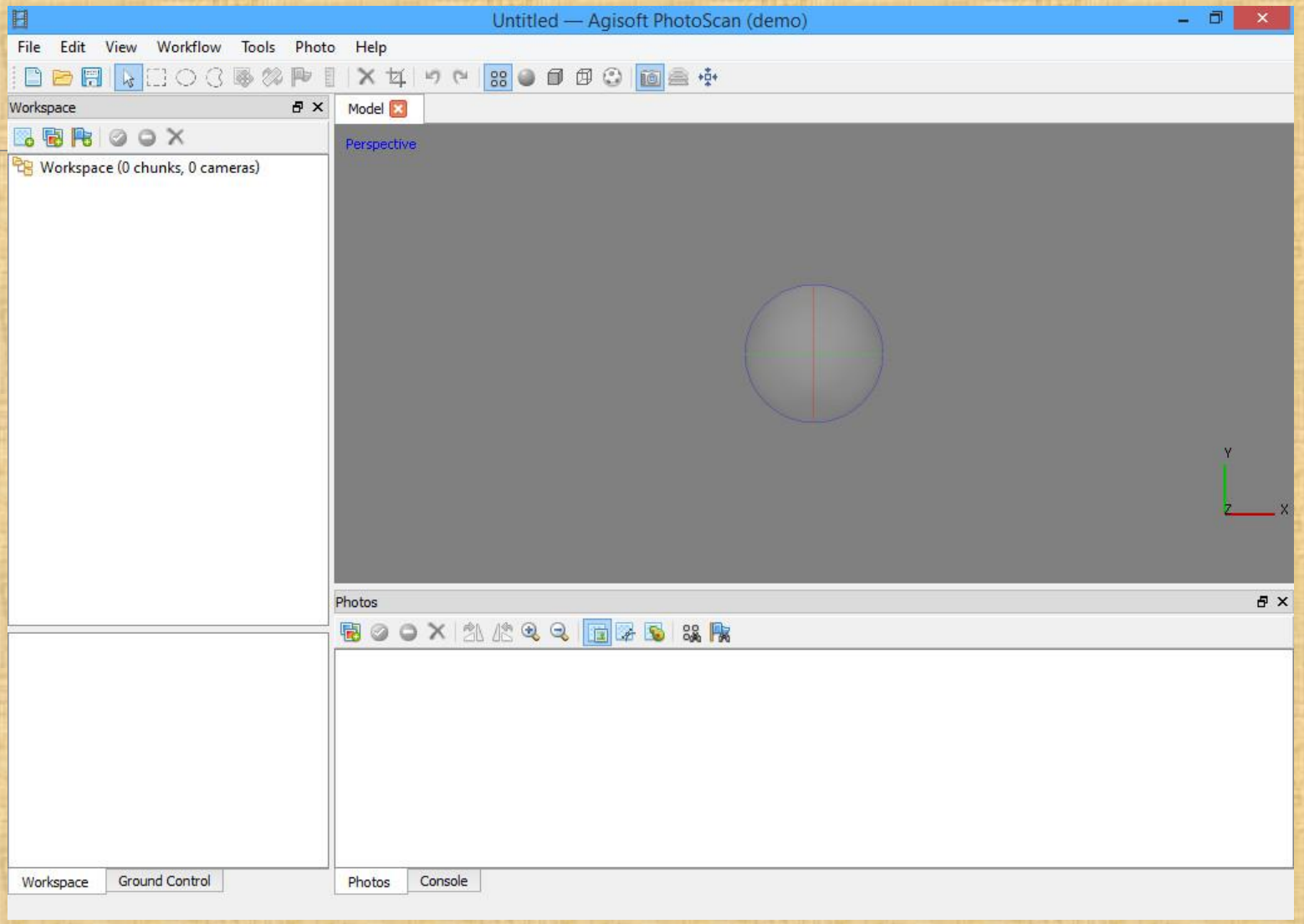
We hope you will enjoy your experience with Agisoft PhotoScan Professional. We would appreciate any feedback as we are eager to improve our program so as it meets the needs and expectations of our clients.

Best regards, Agisoft team.



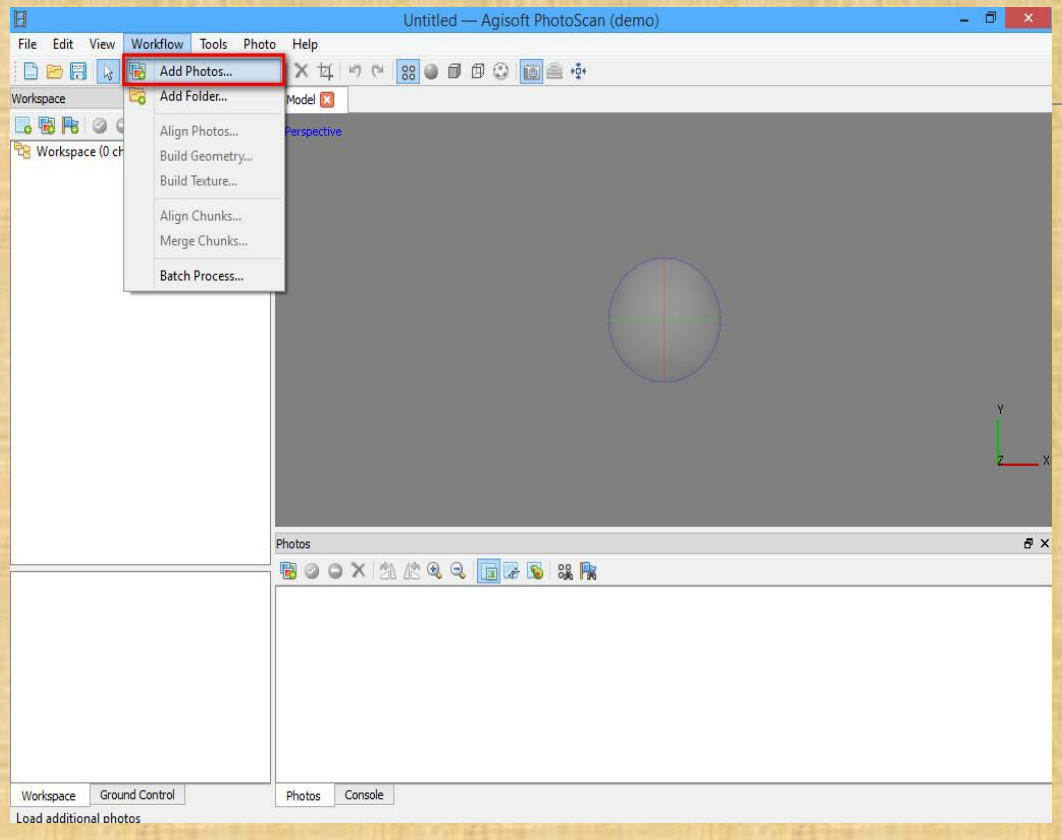
4, Agisoft photo scane dasturida ishlash

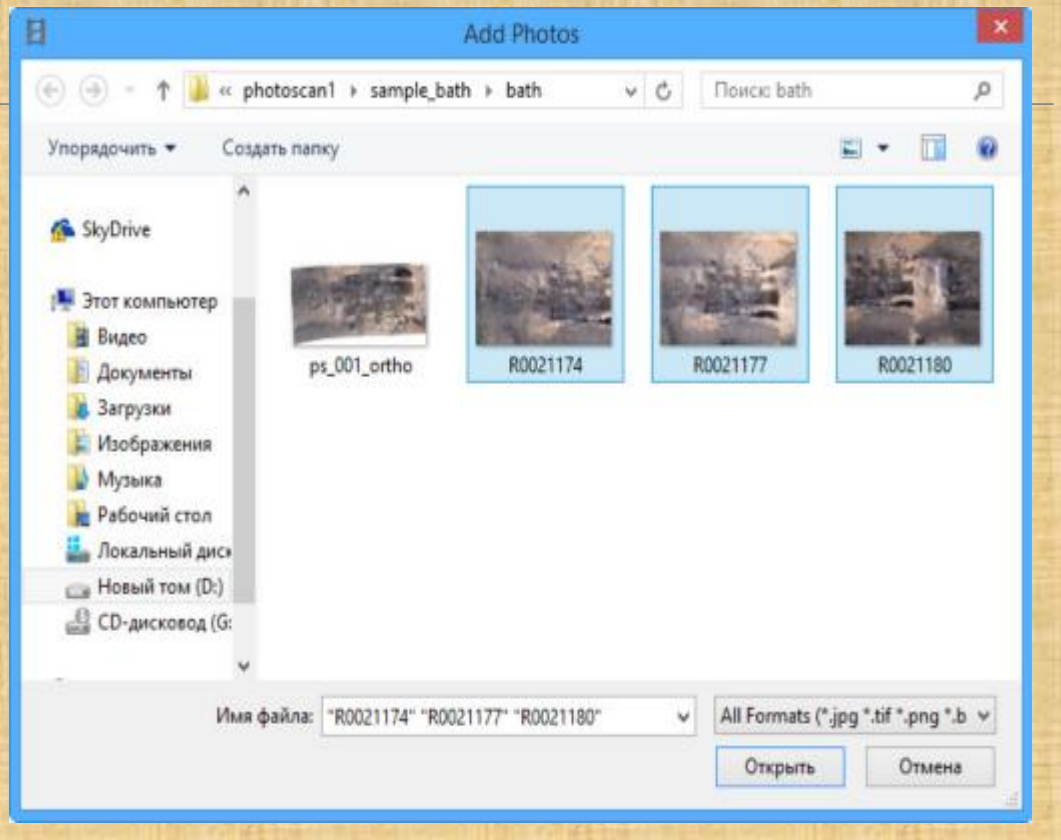
Agisoft photo scane dasturi ishga tushurilgach. Dobavit fotografiya buyrug`i bosiladi. Natijada hosil bo`lgan darchadan kerakli rastrlar belgilanadi va rastrlar yuklab olinadi.



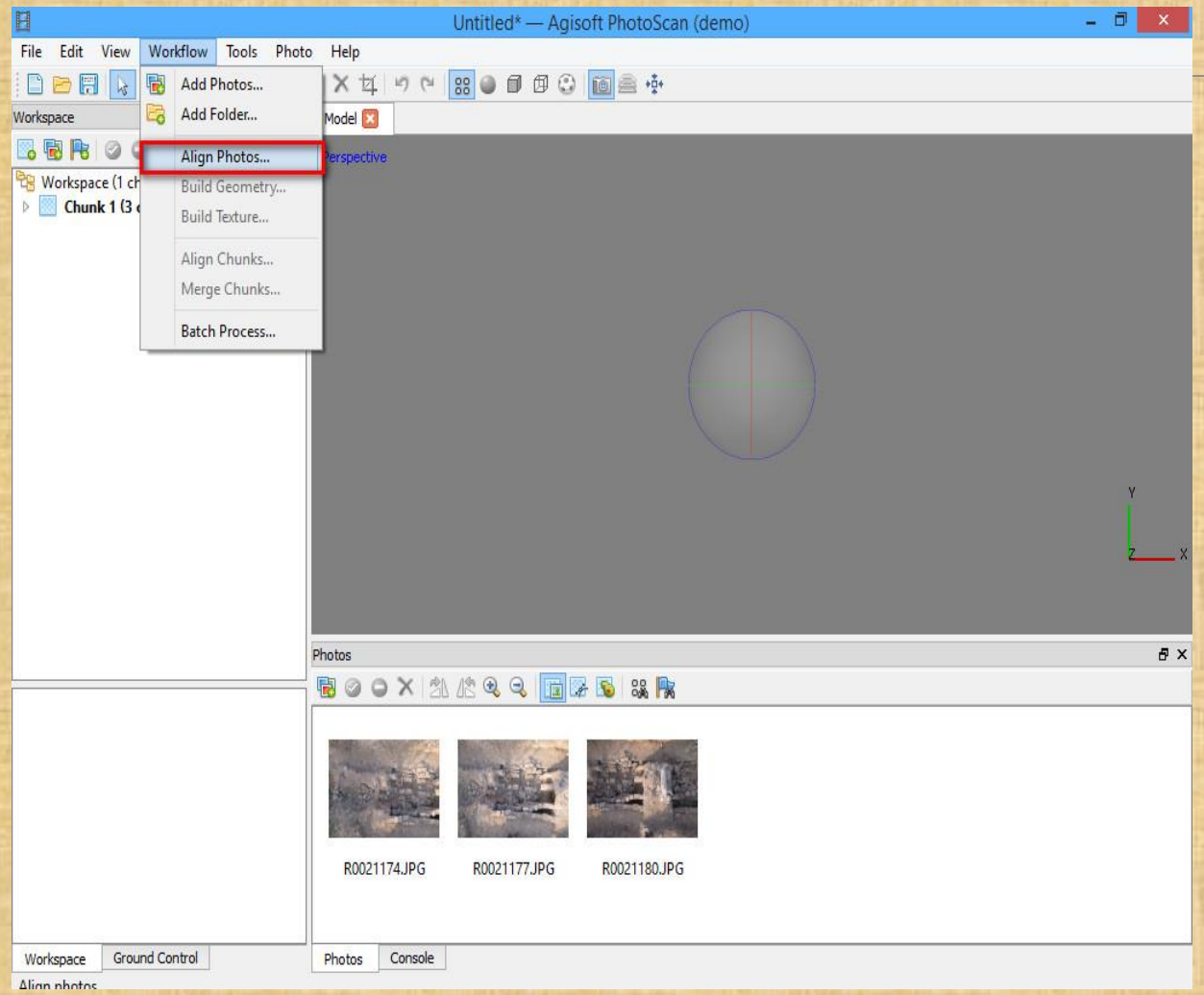
Agisoft Photoscan dasturining ishchi oynasi

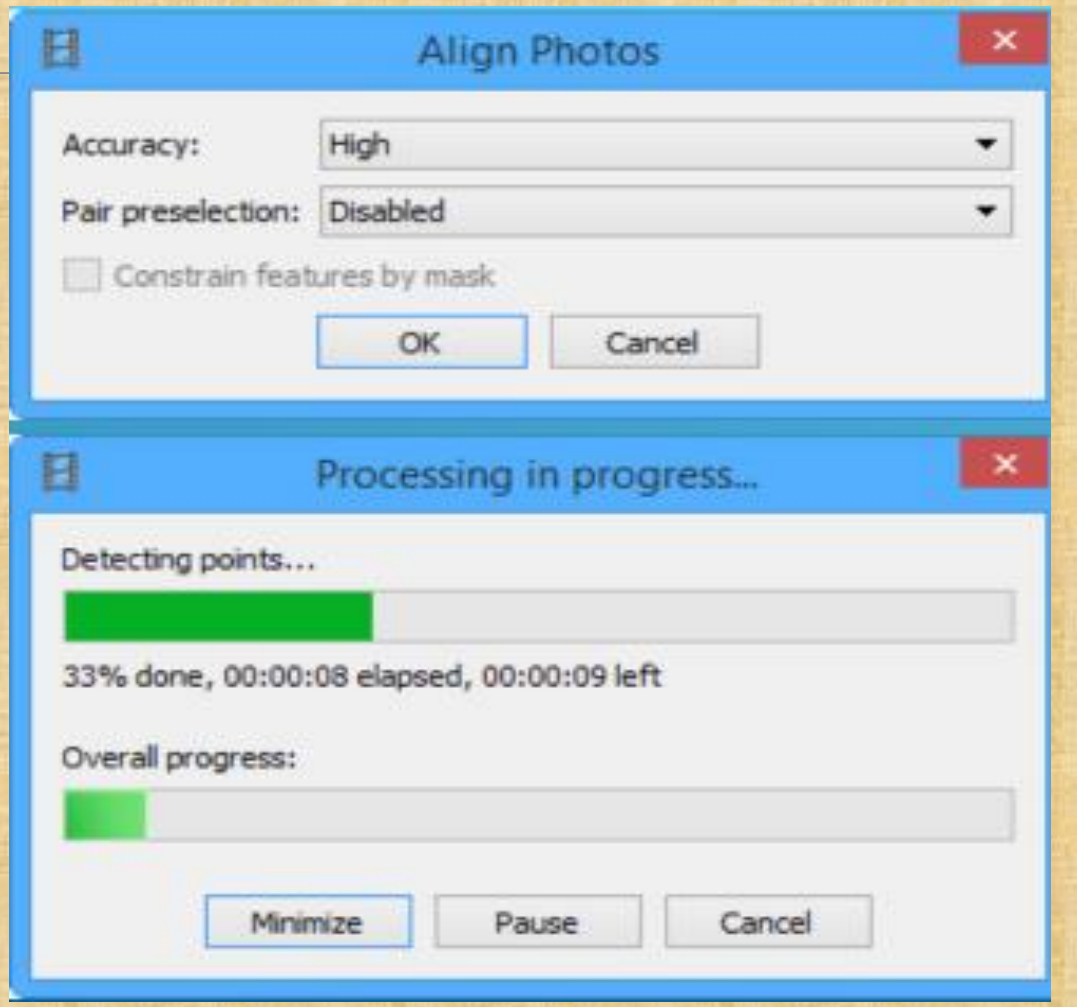
3D modelini yaratish jarayoni

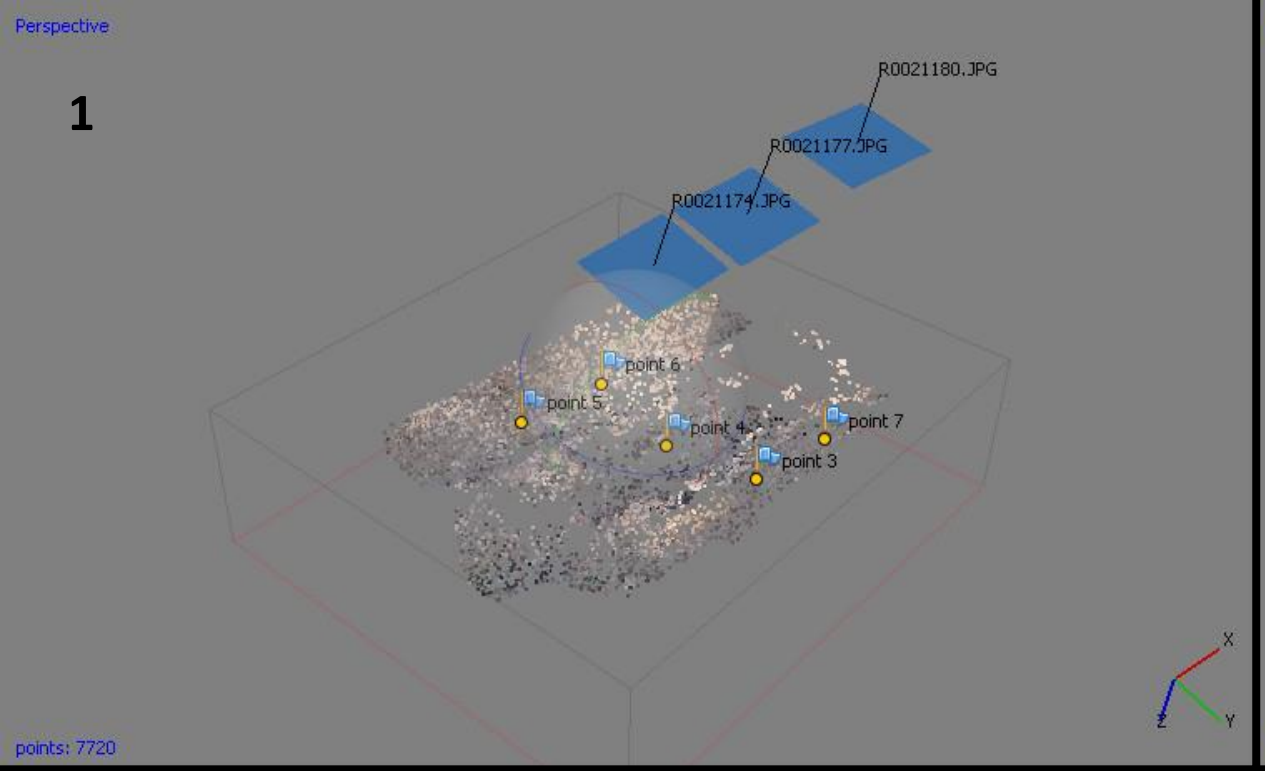


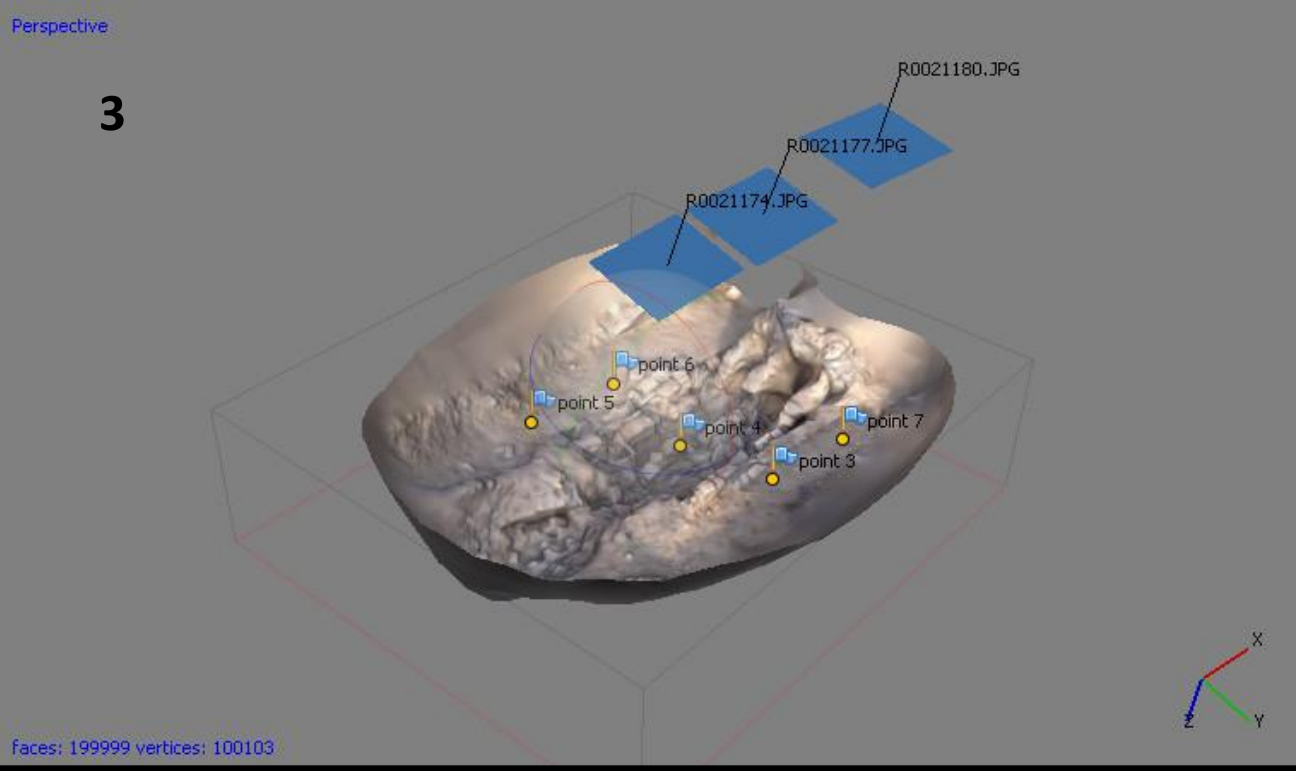


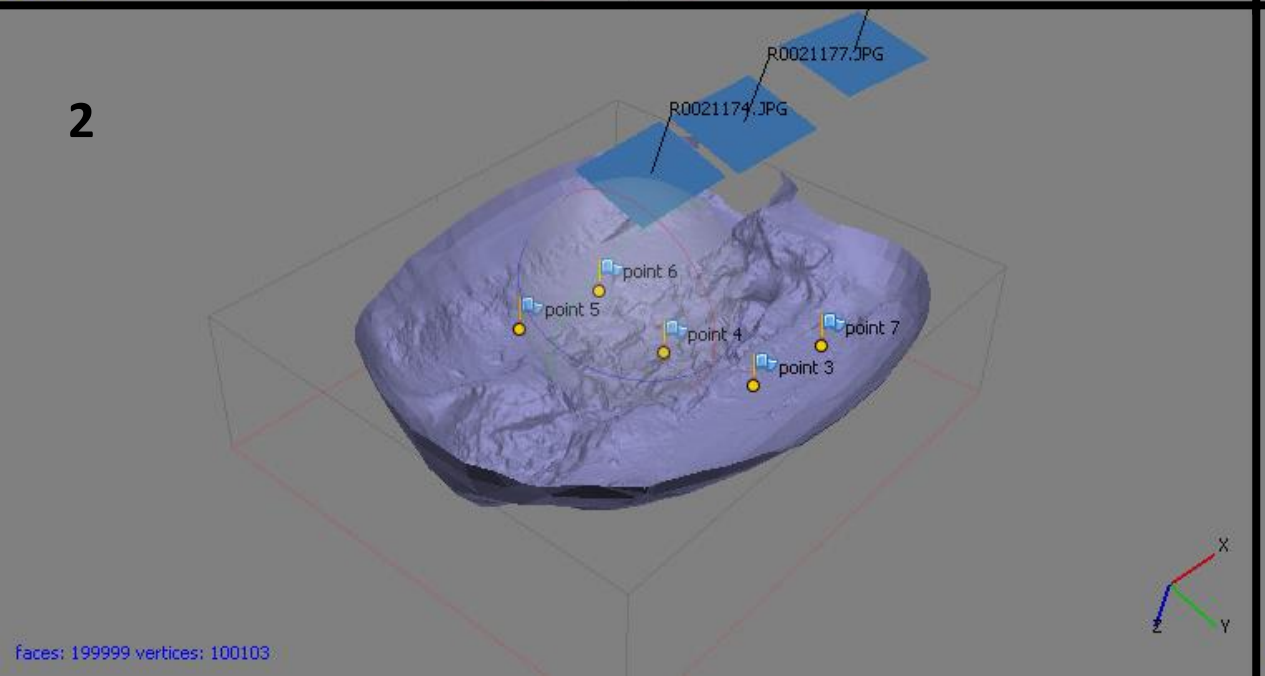
3D modelini yaratish jarayoni

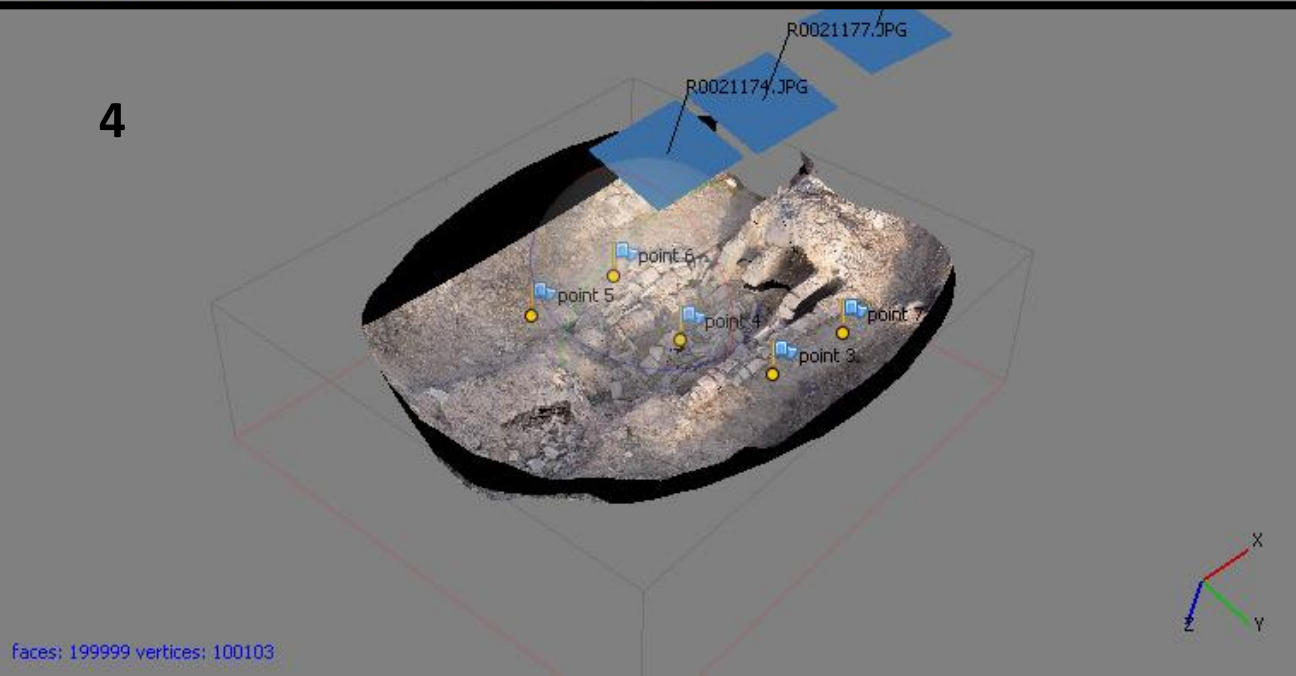


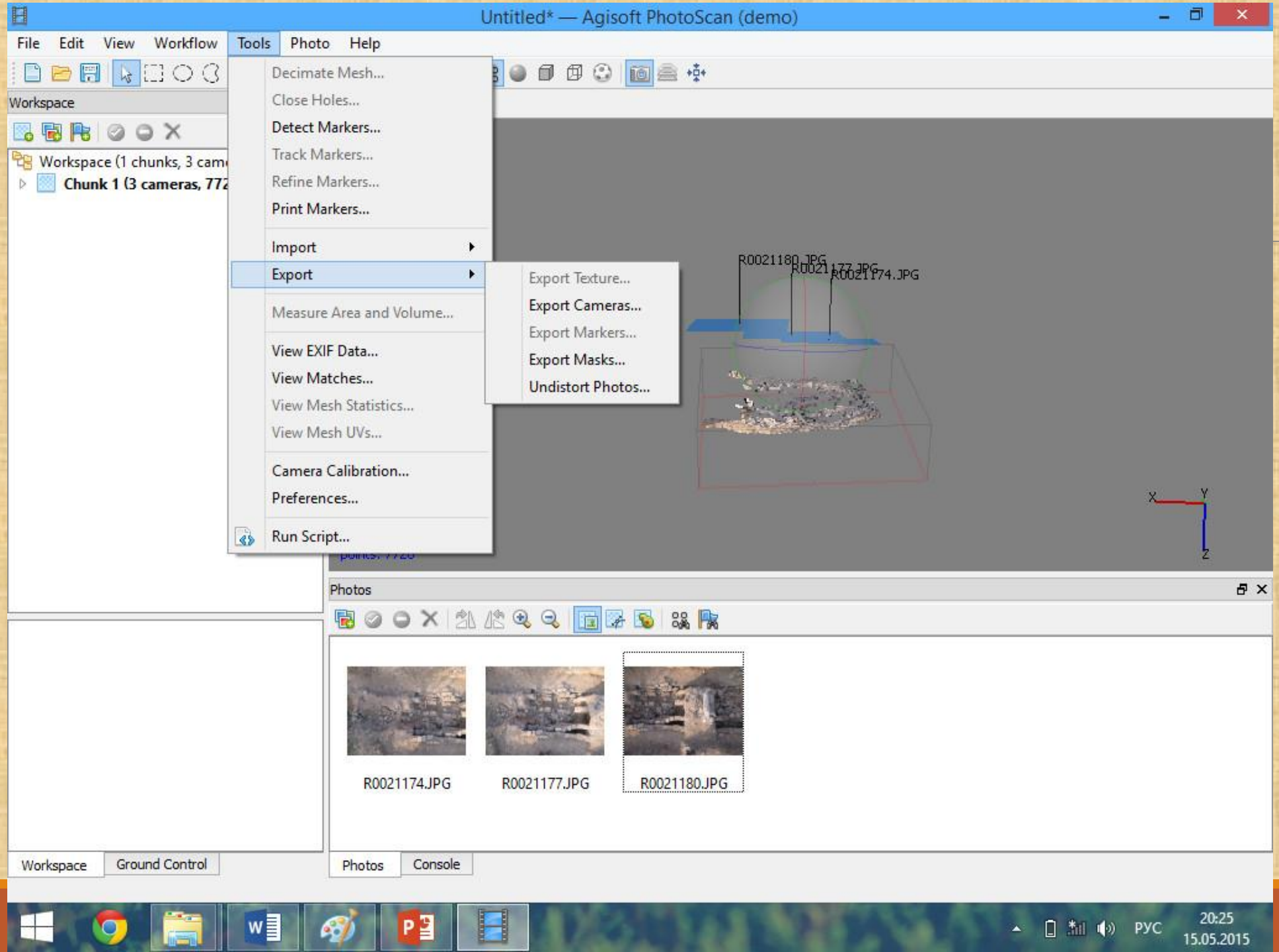



Perspective
1
R0021180.JPG
R0021177.JPG
R0021174.JPG
point 6
point 5
point 4
point 7
point 3
X
Y
points: 7720


Perspective
3
R0021180.JPG
R0021177.JPG
R0021174.JPG
point 6
point 5
point 4
point 7
point 3
X
Y
faces: 199999 vertices: 100103

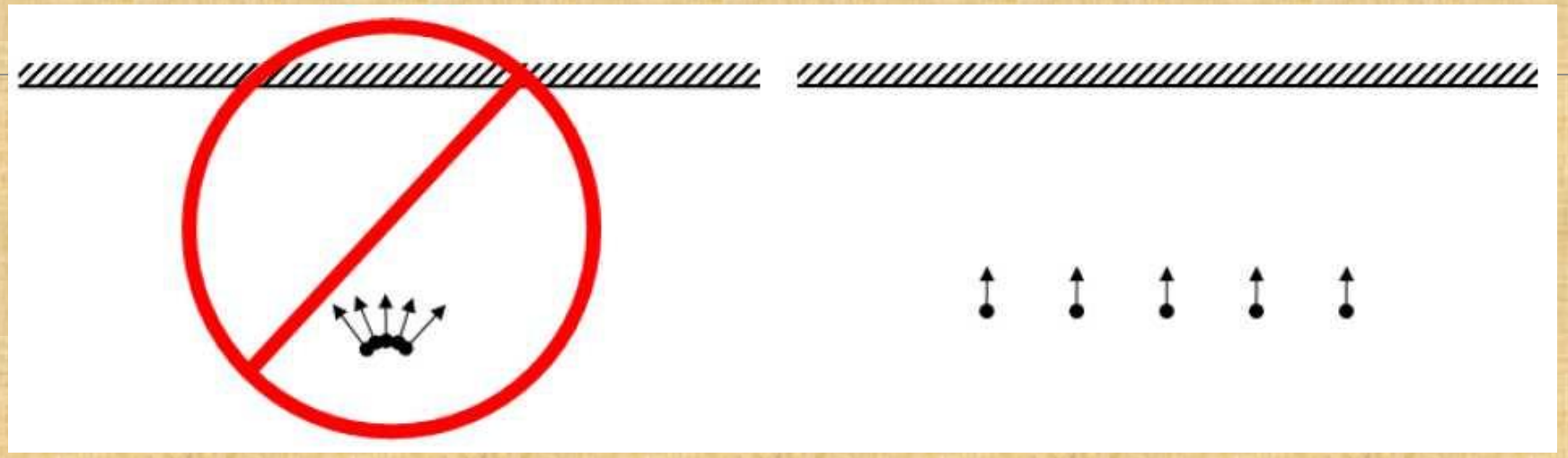

2
R0021177.JPG
R0021174.JPG
point 6
point 5
point 4
point 7
point 3
X
Y
faces: 199999 vertices: 100103


4
R0021177.JPG
R0021174.JPG
point 6
point 5
point 4
point 7
point 3
X
Y
faces: 199999 vertices: 100103

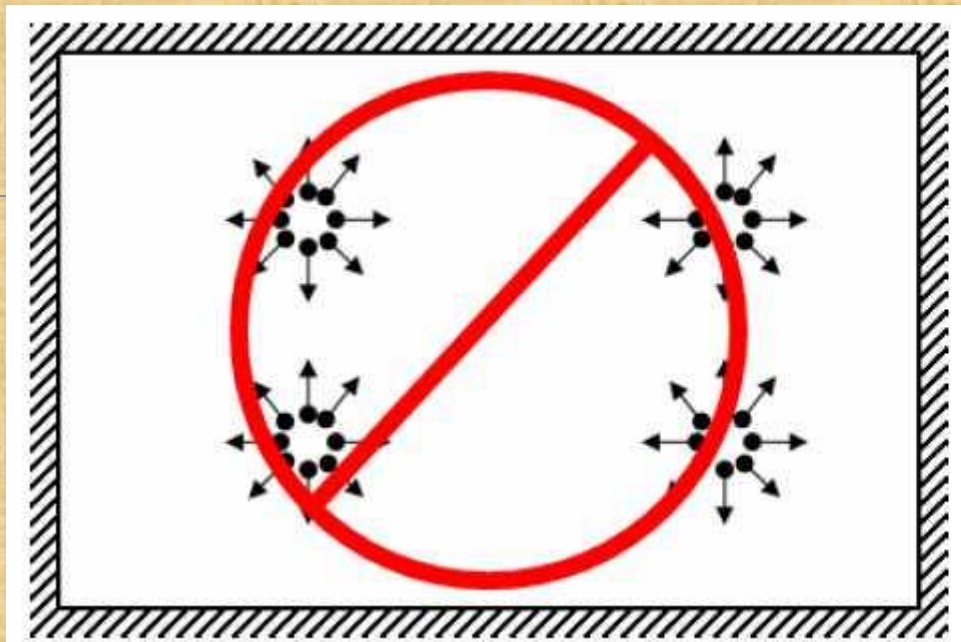


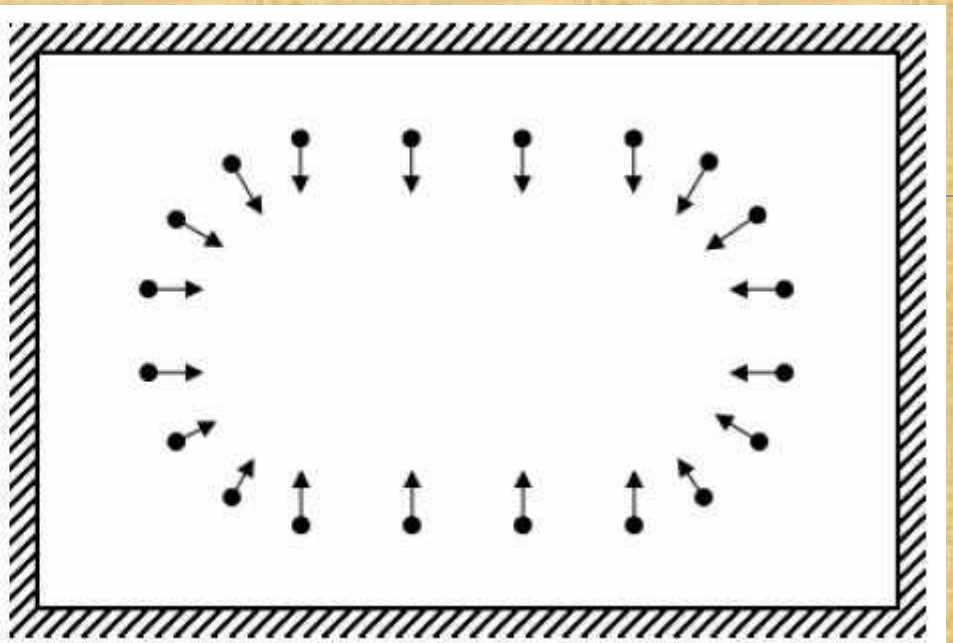
Shuningdek, dasturiy ta'minotning boshqa formatlariga (ArcGIS, Sketch Up ...)

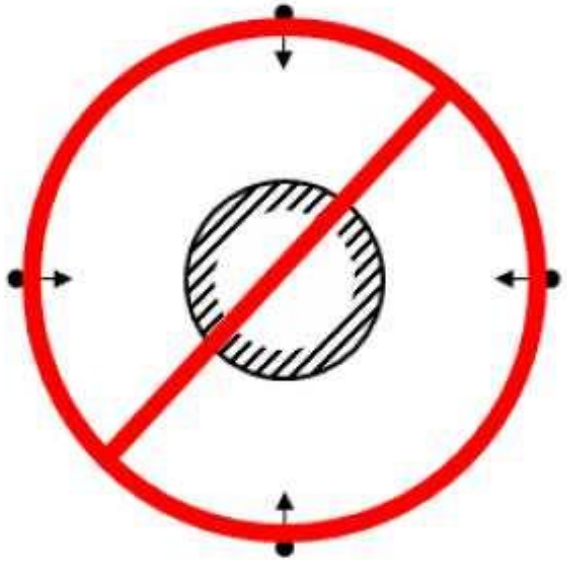
Suratga olish talabi

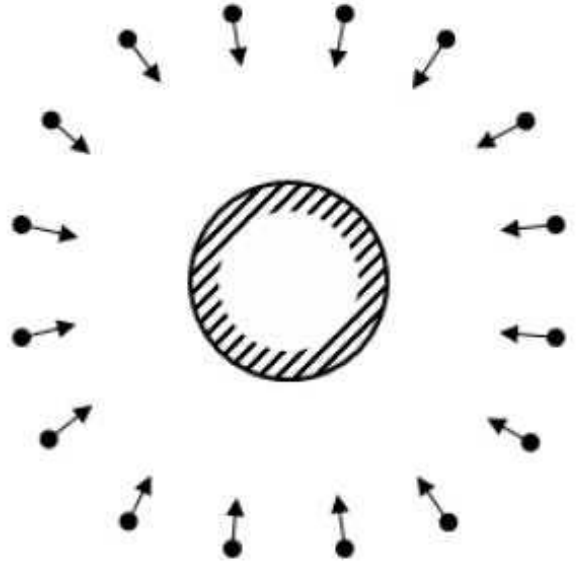


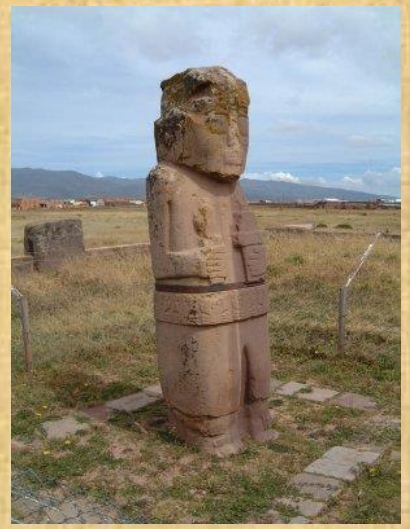
Suratga olish talabi





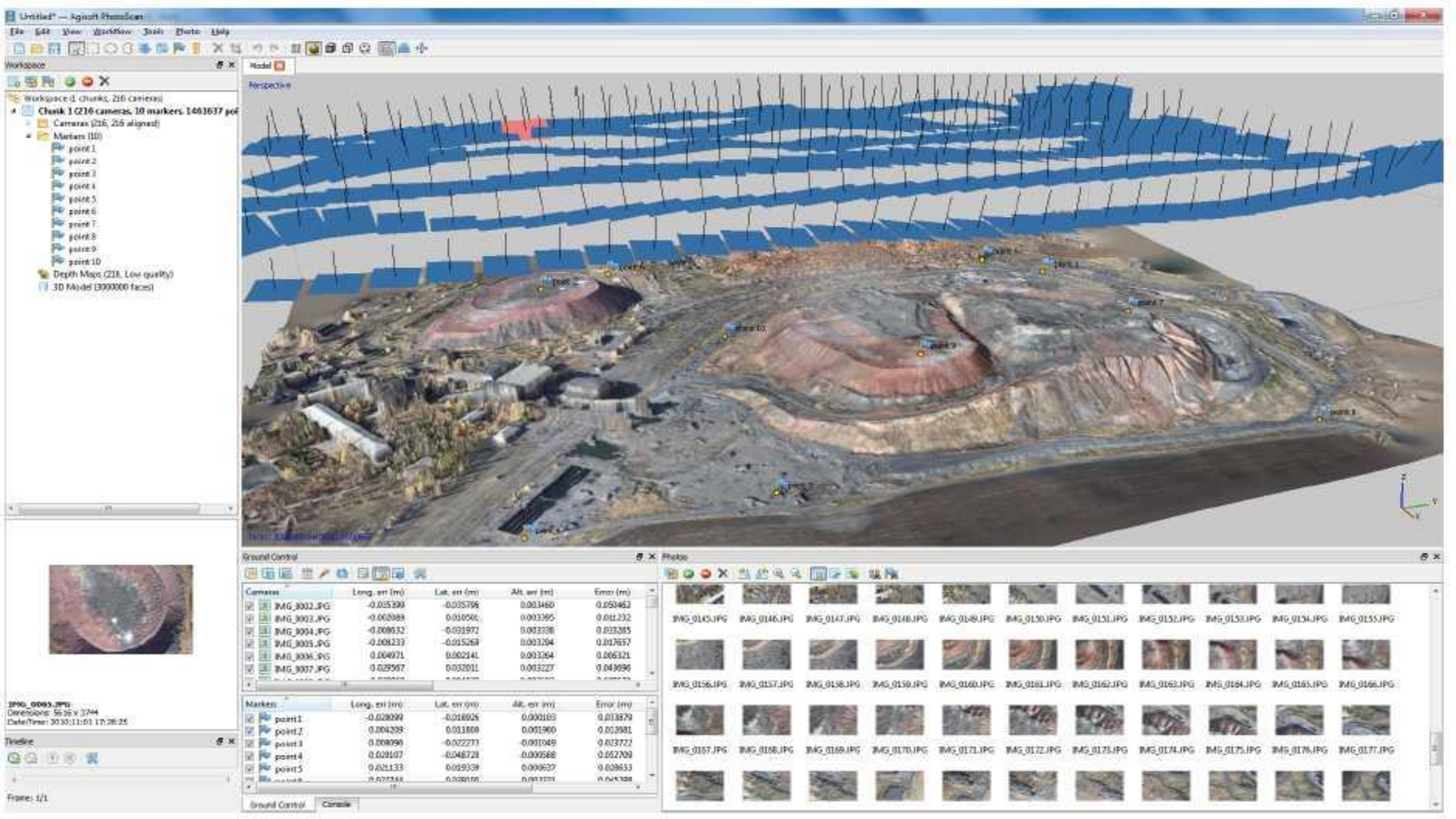






Umumiy ishlash asoslari

1. PhotoScan-ga rasmlar yuklash
2. Yuklangan tasvirlarni tekshirish, keraksiz rasmlarni olib tashlash
3. Rasmlarni taxrirlamoq
4. 3D modelini yaratish
5. 3D modelni tahrirlash
6. Natijalarni eksport qilish


Untitled* — Agisoft PhotoScan
File Edit View Workflow Tools Photo Help
Workspace
Workspace (1 chunks, 216 cameras)
Chunk 1 (216 cameras, 10 markers, 1461637 po
Cameras (216, 216 aligned)
Markers (10)
point 1
point 2
point 3
point 4
point 5
point 6
point 7
point 8
point 9
point 10
Depth Maps (218, Low quality)
3D Model (3000000 faces)
Model
Respective
Ground Control
Cameras
Long. err (m)
Lat. err (m)
Alt. err (m)
Error (m)
IMG_0002.JPG
IMG_0003.JPG
IMG_0004.JPG
IMG_0005.JPG
IMG_0006.JPG
IMG_0007.JPG
Markers
point1
point2
point3
point4
point5
Ground Control
Console
Photos
IMG_0145.JPG
IMG_0146.JPG
IMG_0147.JPG
IMG_0148.JPG
IMG_0149.JPG
IMG_0150.JPG
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IMG_0175.JPG
IMG_0176.JPG
IMG_0177.JPG
Timeline
Frame: 1/1

ЭТИБОРИНГИЗ УЧУН РАХМАТ!