eCapture 3D

eCapture3D

International **technology-based** company

Development of **automatic 3D content generation** services

Huella
Objeto pequeño
Imagen de modelo mallado

Crimen
Escenario mediano
Imagen de modelo mallado

San Marcos
Gran superficie
Imagen de nube de puntos

eyesCloud3D

Web platform with cloud processing

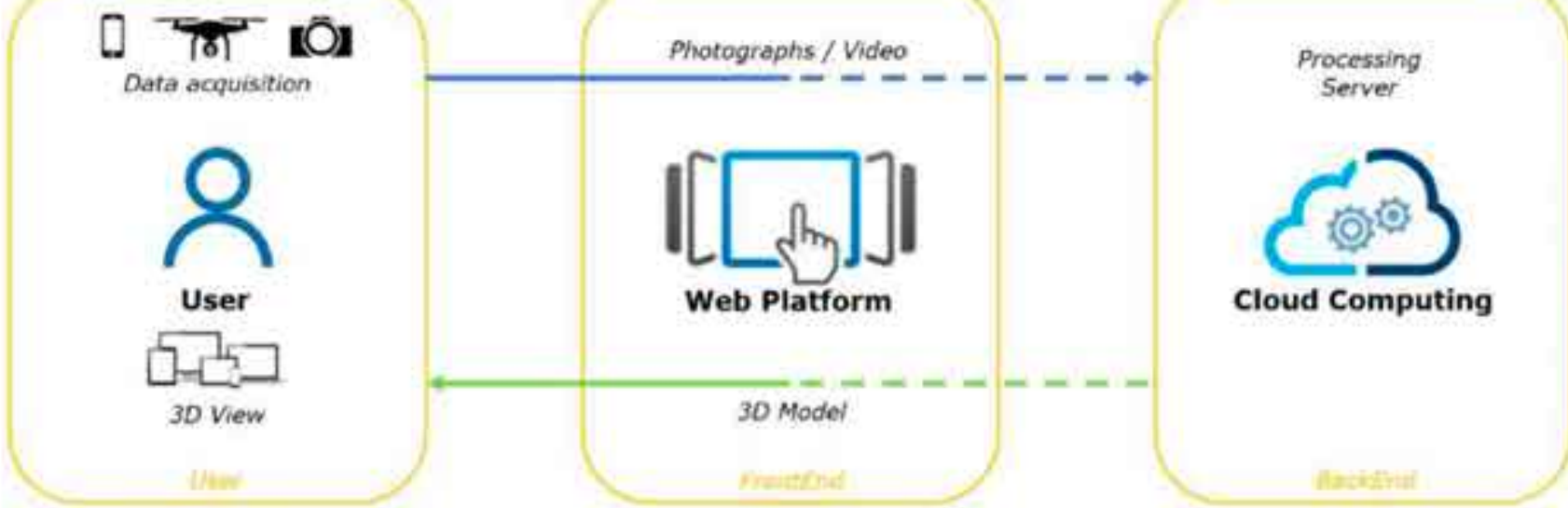
It allows fully automatic 3D content generation

It uses photos or videos captured by any device

5 photographs → 5 minutes

Easy, fast, economical

Does not required prior knowledge



eyesCloud3D - Visualización

Online visualization of the 3D model

No software or plugin required

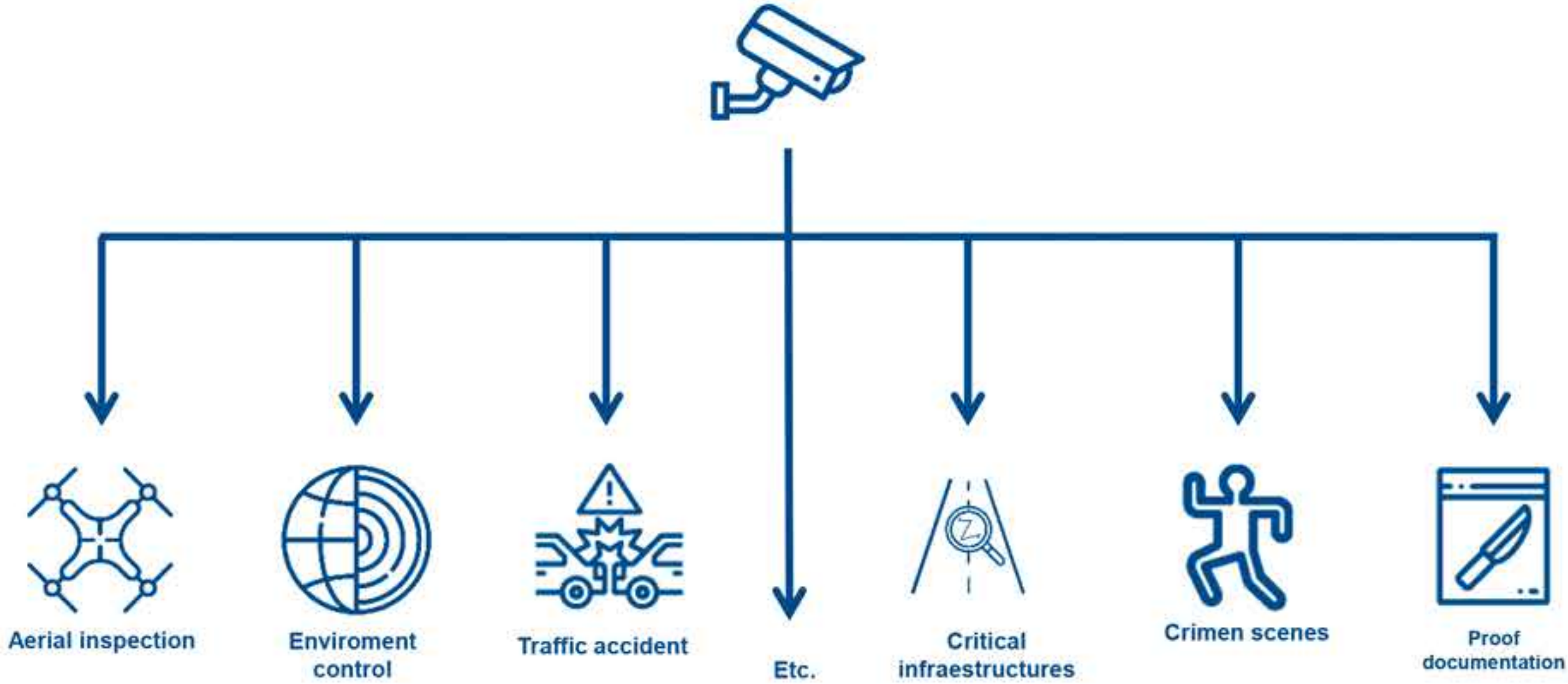
Compatible with **many platforms and devices**

Set of visualization and analysis tools

Sharing via URL or social networks

Integration in other systems and platforms

Uses cases: Security force



Use case: Inspection by drone

Modelo mallado con textura (fotografía desde dron)

Use case: Enviromental control

Use case: Enviroment control

Use case: Enviroment control

Digitalización de zona afectada por vertidos
Rápido análisis y cálculo del área afectada
Generación de modelos 3D de detalle sobre ortofotos

Use case: Underwater scenes

Digitalización de objetos y yacimientos bajo agua
Documentación 3D de elementos fungibles
Posibilita el análisis de objetos en entornos extremos

Use case: Critical infrastructures

Use case: Traffic accidents

Reconstrucción 3D calle
Gran superficie
Vista perspectiva de modelo realizado

Reconstrucción 3D calle
Gran superficie
Vista frontal de modelo realizado

Use case: Traffic accidents

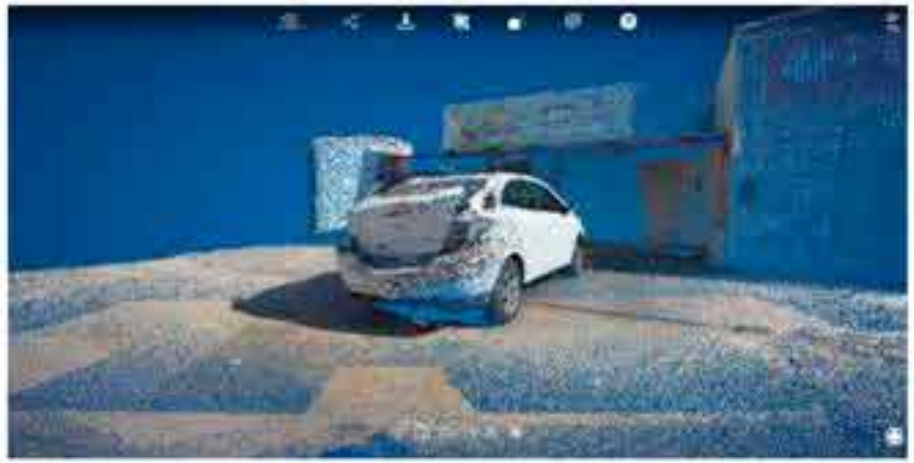


Imagen de nube de puntos

Imagen de modelo mallado

Recorrido virtual – visualización golpe

Use case: Traffic accidents

Comparación de resultados eyesCloud3D vs Agisoft MetaShape (PhotoScan)

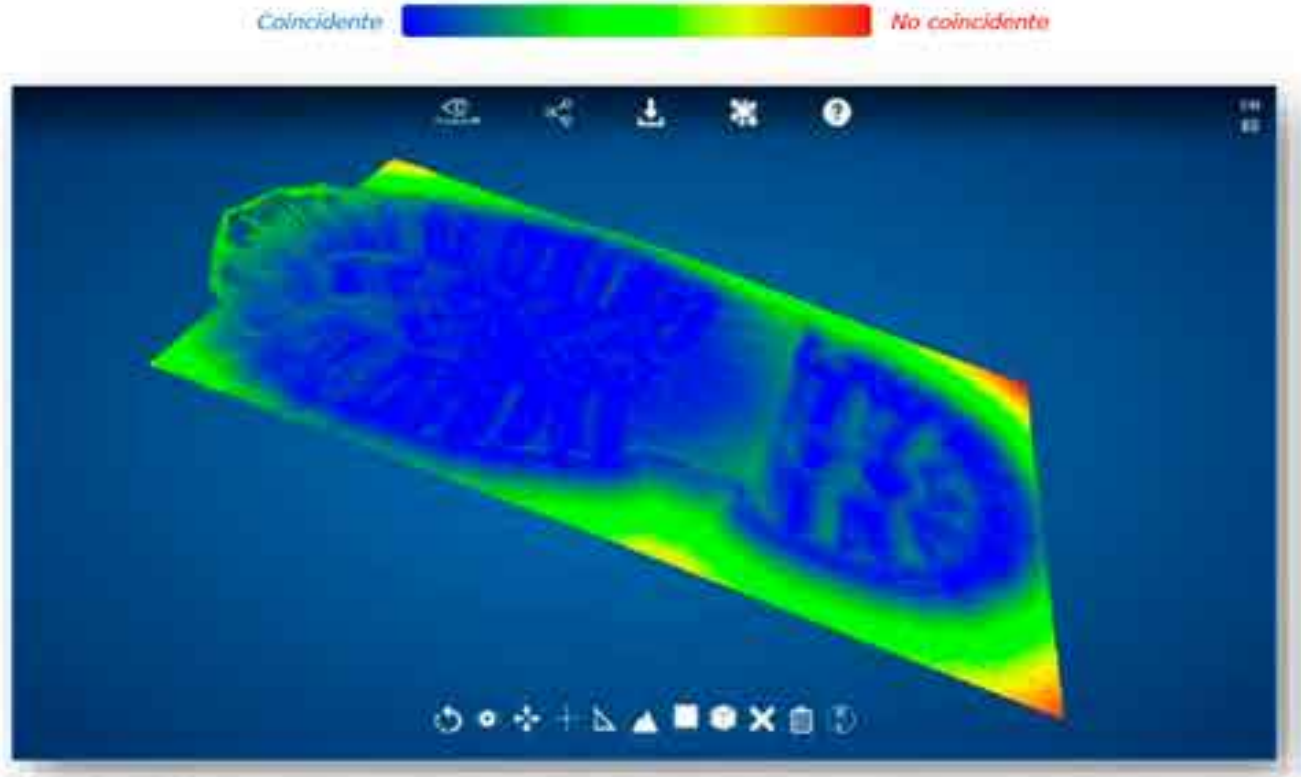
Datos proporcionados por usuario

Use case: Documentation and 3D comparison

Huella
Objeto pequeño
Vista en perspectiva de modelo mallado

Huella
Objeto pequeño
Vista detalle de modelo mallado

Use case: Documentation and 3D comparison



Mapa de coincidencia

Use case: Crimen scenes

Escena crimen
Escenario mallado
Vista superior de modelo mallado

Escena crimen
Escenario mallado
Vista frontal de modelo mallado

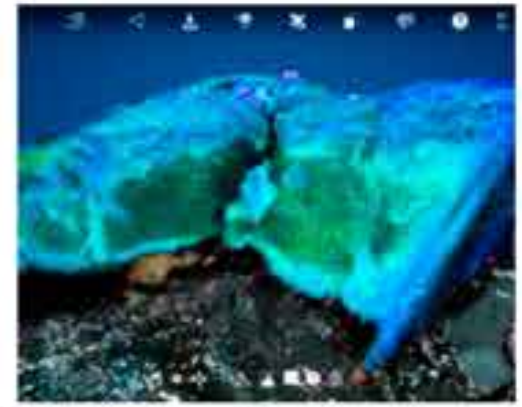
Use case: Forensic

Escena forense
Escenario mediante
Vista perspectiva de resultado realizado

Escena forense
Escenario mediante
Vista perspectiva de nube de puntos

Use case: Spectral / thermal cameras

Modelo 3D textura real y simulación espectral



Modelo 3D textura real y simulación espectral

Geometría modelo 3D

Textura original

Visualización capa espectral

Tools set

Data collection

- Geographical coordinates
- Distances
- Heights
- Area measure
- Volumes
- …

Tools set

Scale to real measures:

Automatic
The device recognize a target and scale the 3d model

Manual
To select 2 points and give the real measure

GPS
included in the metadata of the images.

Herramientas

Notes

- Insert notes at points of interest in the 3D model.
- Choose when you want to display them.
- Reference links.
- 3D models of detail.

Tools set

Trim to 3d Model

- Choose 3+ point to eliminate some part of the 3D model
- Possibility to undo the cut on the 3D model.

Tools set

Georeferencing

Georeferencing data in two ways:

- Automatic: the images contain the GPS position in their metadata.
- Manual: at least 3 real coordinates are assigned to the 3D model WGS84 ó UTM

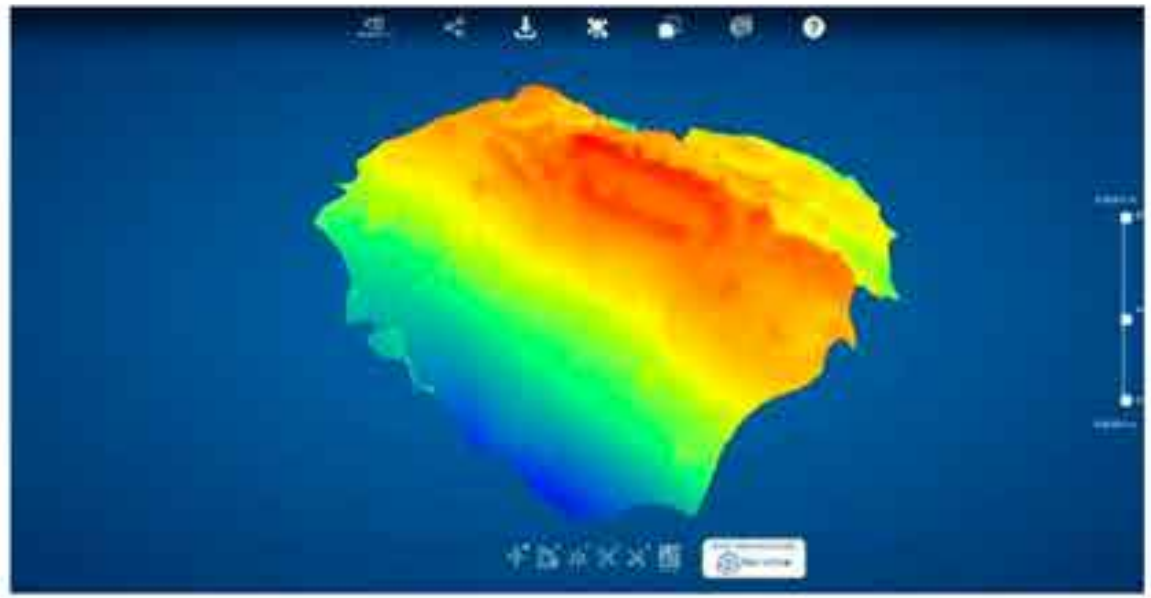
Tools set

Map

- Available for 3D point cloud
- It shows the real location of the model on map

Tools set

Elevation map



- Shows the different elevation levels in the 3D model.
- It allows to establish up to 3 base levels of update, modifying the representation color

Tools set

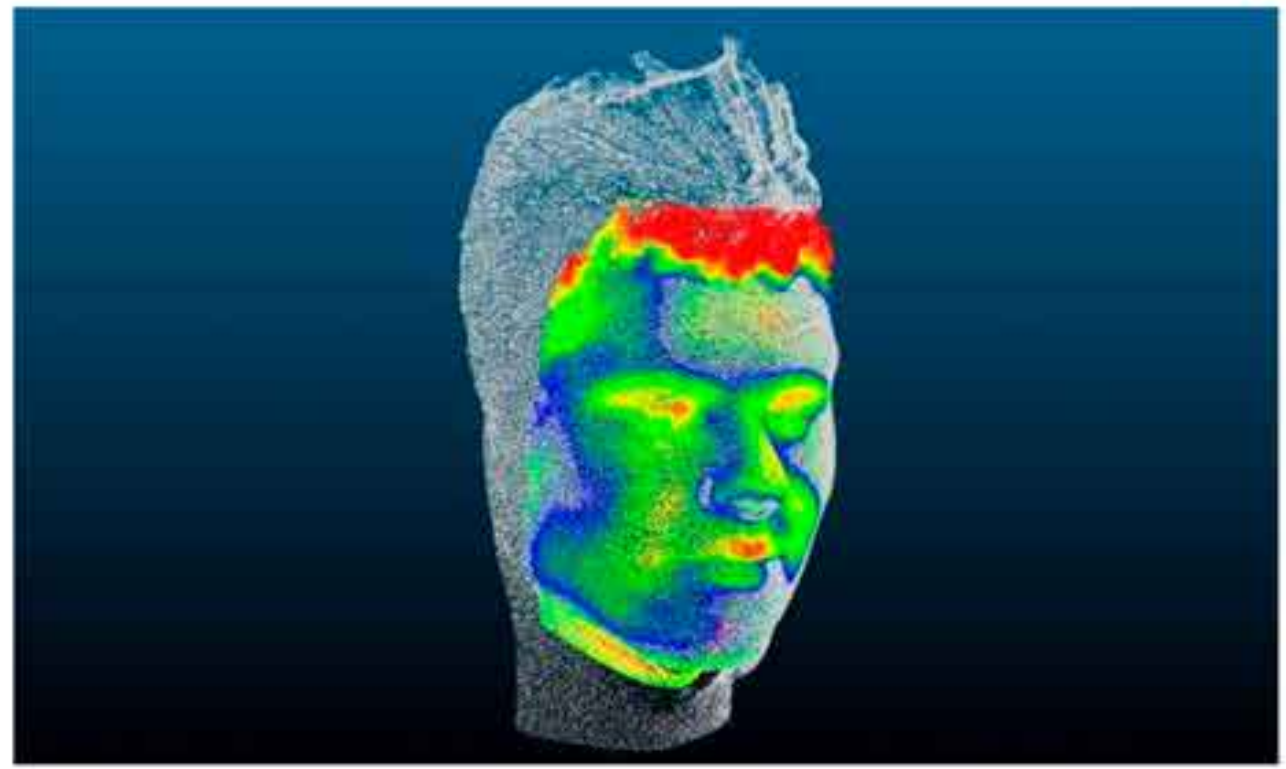
Join models

Tools set

Geometric comparison (in development)

Individuo de referencia

Individuo a comparar



Resultado de comparación

Tools set

Virtual Tour

Allows to create a virtual tour through the 3d model.
Define the points of interest of the route, the speed and the waiting time in each one.

Downloadable Formats

Point cloud

- PLY
- LAS
- E57
- ASC

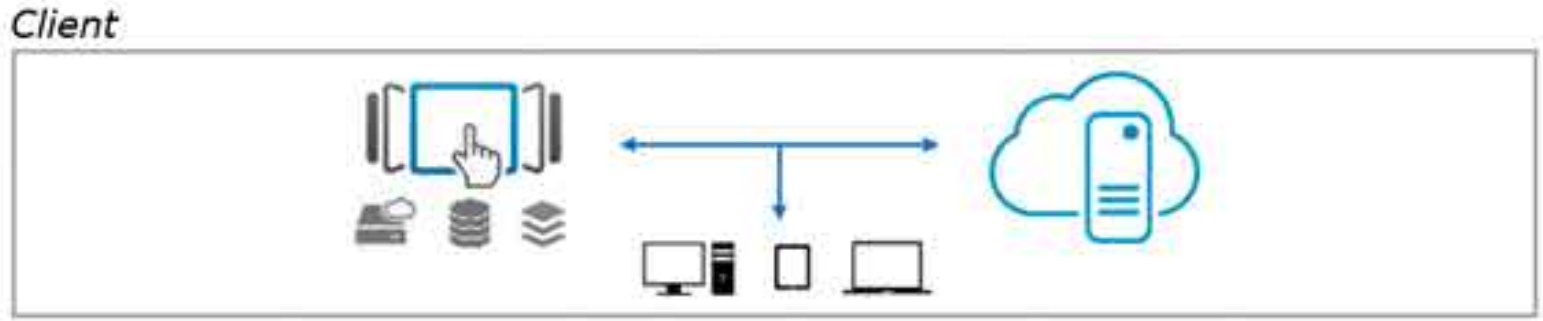
Mesh model

- OBJ
- PLY
- STL
- PDF
- DAE
- FBX
- GLB

System integration

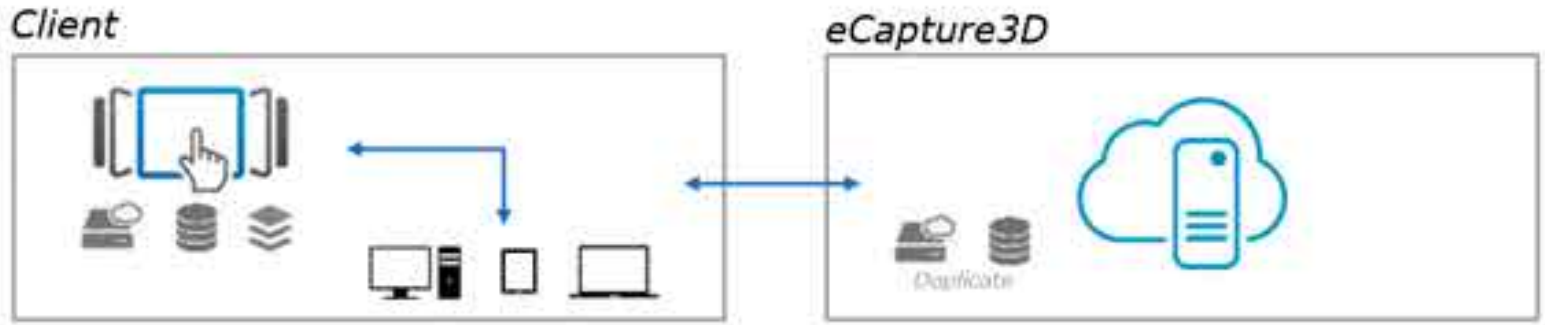
Complete integration

The system ist completely integrated on the clients side.



Partial integration

The data processing is carried out in the eCapture3D server.



Integration of the visualization

The client only integrates the visualization of the results in his system.

Link to 3D model:

Click or copy into your browser to watch 3D models on high definition. (Don't use Internet Explorer to visualize the 3D model)

Footprint: https://www.eyescloud3d.com/viewermt.php?m=9e959e1bdc749584a44205b2308622ff
Scene crime: https://www.eyescloud3d.com/viewermt.php?m=d082b369a4f752563776766d55616431
San Mamés stadium: https://www.eyescloud3d.com/viewerpc.php?m=3f41dbaccfaddc02971af3fb8fd00220
Scene crime 2: https://eyescloud3d.com/viewermt.php?m=555bc7a537912a2290d999b03808eebe
"Inspection by drone": https://www.eyescloud3d.com/viewermt.php?m=ccab29d28b3195a91313b6c35fe6cc29
Environmet control: https://eyescloud3d.com/viewermt.php?m=24fc8824e3adc0438e3c707796885db6
Enviroment control 2: https://eyescloud3d.com/viewermt.php?m=9bf73b0c7ed6c3f3eff799072a0df194
Enviroment control 3: https://eyescloud3d.com/viewermt.php?m=8a05a406133562fd45b5be4a1578a411
Underwater scenes: https://eyescloud3d.com/viewermt.php?m=851b4ba4b174f1b7702b3209cc6d4518
Traffic accidents: https://www.eyescloud3d.com/viewermt.php?m=3f3827609557c964ab517d0d4f634ec9
Traffic accidents: https://eyescloud3d.com/viewermt.php?m=7b5ae0fcf0723b6dff745b71f212264b
Documentation and 3D comparison footprint: https://eyescloud3d.com/viewerpc.php?m=0bf55bbdc9b33f10262527ee47817755
Spectral/thermal cameras: https://eyescloud3d.com/viewermt.php?m=3f12c105cb050fc7c22834448c8cd3cb
Spectral/thermal cameras: https://eyescloud3d.com/viewermt.php?m=99301e3a73e160b361a95f3d2565cf02
Trim tool: https://eyescloud3d.com/viewermt.php?m=eb1e55128814e949239bf2d5266c0ef8
Geolocate tool: https://eyescloud3d.com/viewerpc.php?m=660e15847be3f65022b1cdc87fc541f6C
Virtual Tour video: http://ecapture3d.com/resources/video/tourpuenteajuda.mp4

You can download the presentation in high resolution in the next link:

https://www.dropbox.com/s/tw27r9bsbo3mx1l/eyescloud3d.pptx?dl=0