



## GIRAVOLT, 3D documentation in Catalonia The Garrell constructions case

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**Giravolt**  
Viu el patrimoni  
català en 3D

# Giravolt

Started by the Government of Catalonia

- Goal: to spread 3D technologies in the cultural heritage sector
- 4 main areas
  - Digital Corpus
  - Professional Sector
  - Education
  - Audiences

The image shows the Giravolt website homepage. At the top, there's a navigation bar with links to 'PATRIMONI CULTURAL', 'GIRAVOLT', 'Què és Giravolt', 'Els models 3D', 'Professionals', 'Educació', 'Creació', 'Participació', 'Equipaments participants', and 'Comunicació'. Below the navigation is a social media icon bar. The main content area features a large teal box with the text 'Viu el patrimoni català en 3D'. The background is a grid of colored squares (black, red, yellow, blue) with the 'G' logo repeated across them. A large, stylized 'G' is also visible in the bottom right corner of the page.

GIRAVOLT. LA NOVA EXPERIÈNCIA DEL PATRIMONI CULTURAL CATALÀ

Benvingudes i benvinguts a Giravolt, el nou projecte de digitalització 3D del patrimoni cultural català.

Gràcies a les noves tecnologies de captació 3D posem al teu abast una nova manera de mirar el patrimoni. Capgirem la forma com vivim el nostre patrimoni cultural amb una veritable experiència global en 3D.

Descobreix-lo ràpidament en aquest vídeo:

A thumbnail of a video player showing a 3D model of a building. The video player includes controls for play, pause, volume, and sharing. The Giravolt logo is visible in the top left corner of the video frame.

# Collaborative programme

Museu de Lleida, Diocesà i Comarcal

Museu Frederic Marès

Museu d'Art de Girona

Museu d'Història de Catalunya

Museu Nacional Arqueològic de Tarragona

Museu de la Immigració de Catalunya

Museu del Disseny de Barcelona

Palau de la Generalitat de Catalunya.

Departament de la Presidència

Museu Episcopal de Vic

Museu Nacional d'Art de Catalunya

Museu Etnològic del Montseny

Facultat de Belles Arts. Universitat de Barcelona

Museu de Guissona

Museu d'Arqueologia de Catalunya-Barcelona

Museu d'Arqueologia de Catalunya-Ullastret

Museu d'Arqueologia de Catalunya-Girona

Museu Nacional de la Ciència i de la Tècnica de Catalunya

Museu de les Arts Escèniques

Museu d'Història de Cambrils

Seu Vella de Lleida

Museu Etnogràfic de Ripoll

Ecomuseu de les Valls d'Àneu

Museu de la Vida Rural

Vinseum. Museu de les Cultures del Vi de Catalunya

Centre d'Interpretació Dinosauris de Fumanya

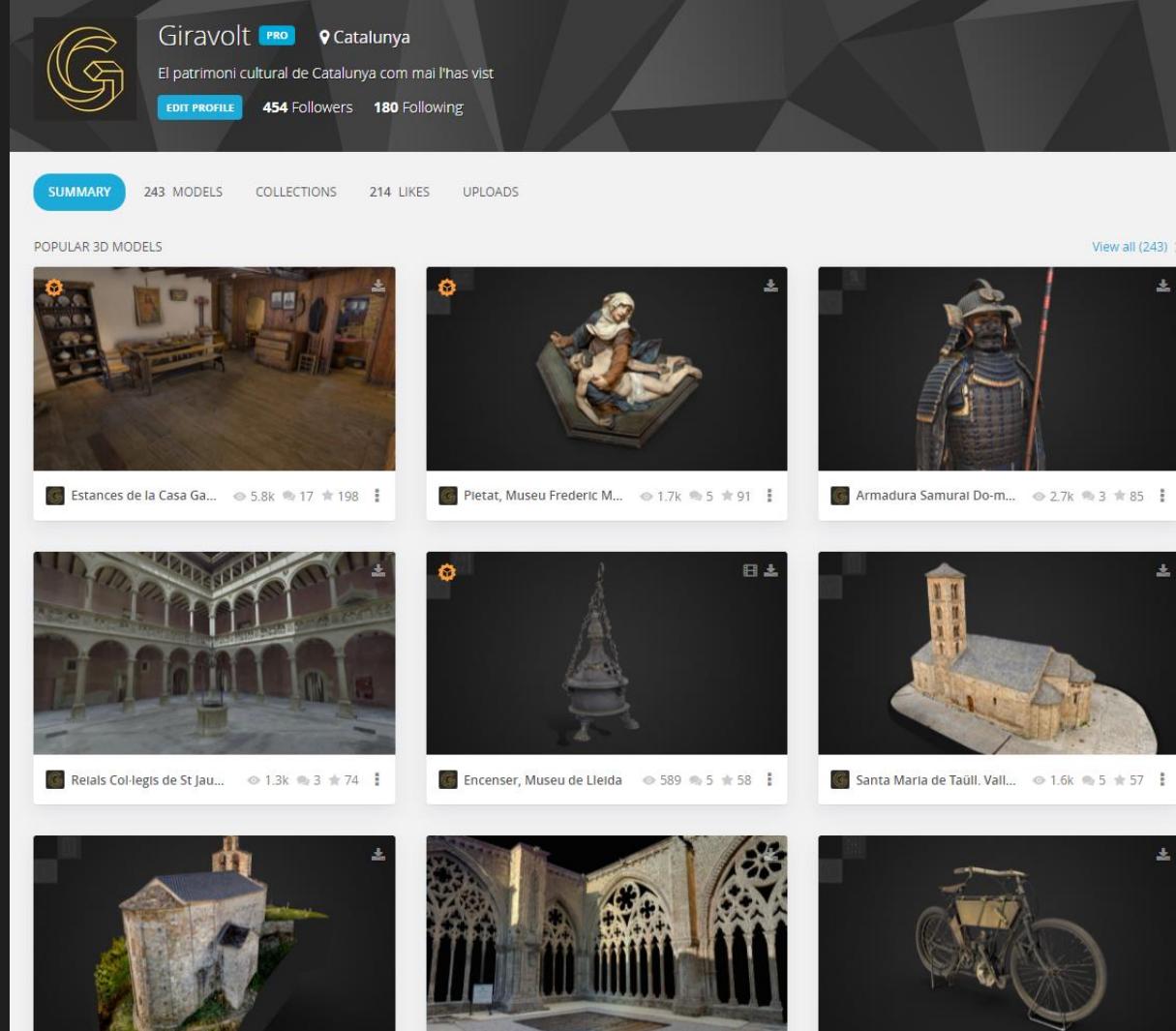
Museu del Ferrocarril

Museu Etnològic i de Cultures del Món

...

# 1. Digital Corpus

- 300 models
- 229 published on Sketchfab
- CC-BY
- Showing the diversity of Catalonia's cultural heritage: from dinosaur bones to contemporary art
- From samurai armor to UNESCO World Heritage Romanesque churches



# 1. Digital Corpus

Laser scanner for architecture and archaeology  
and photogrammetry for museum objects

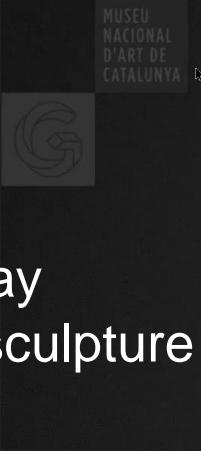


# 1. Digital Corpus

Museum objects

"The First Cold" Miquel Blay

Study in clay and marble sculpture

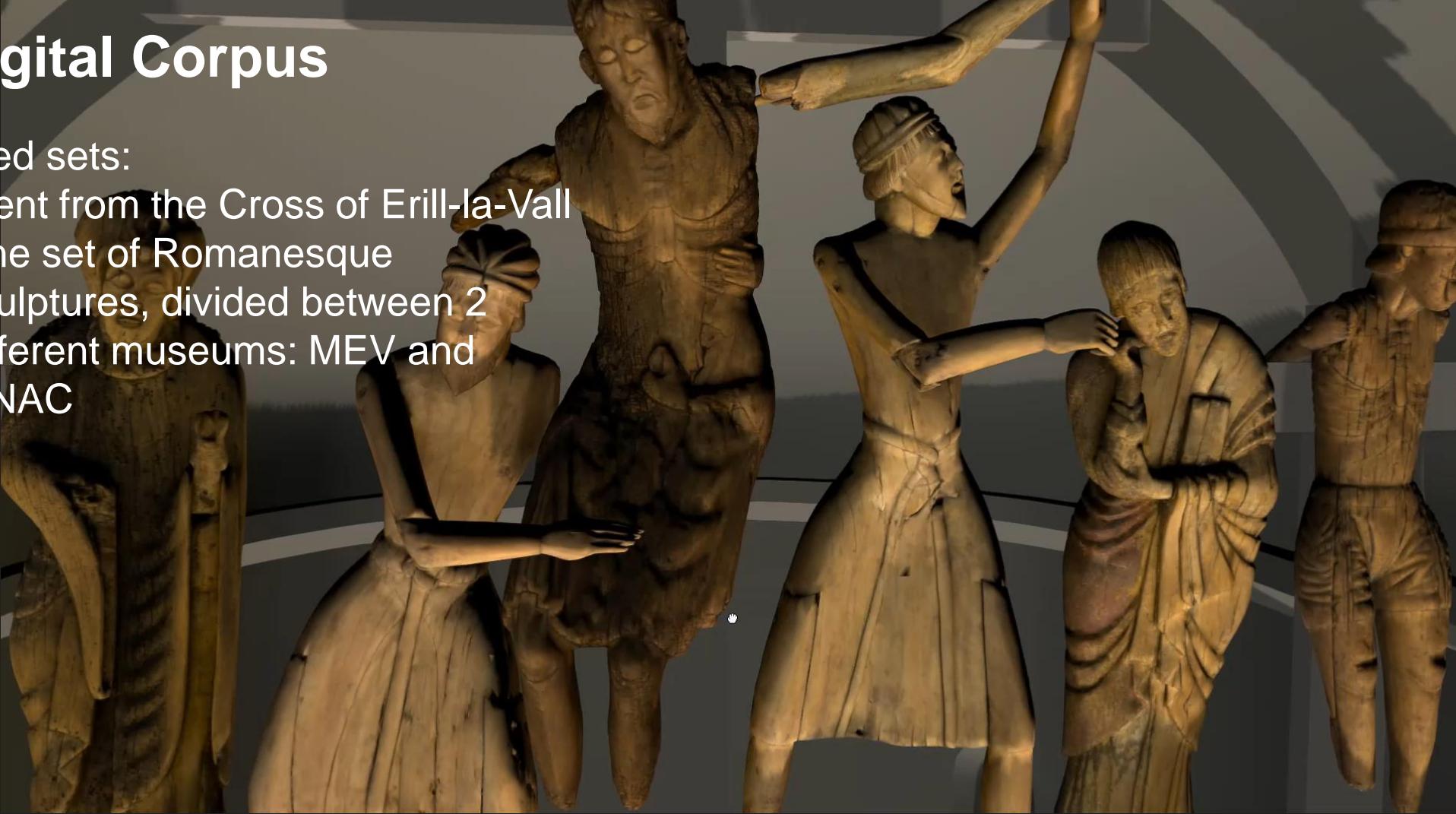


# 1. Digital Corpus

Divided sets:

Descent from the Cross of Erill-la-Vall

- One set of Romanesque sculptures, divided between 2 different museums: MEV and MNAC



# 1. Digital Corpus

Architectural models



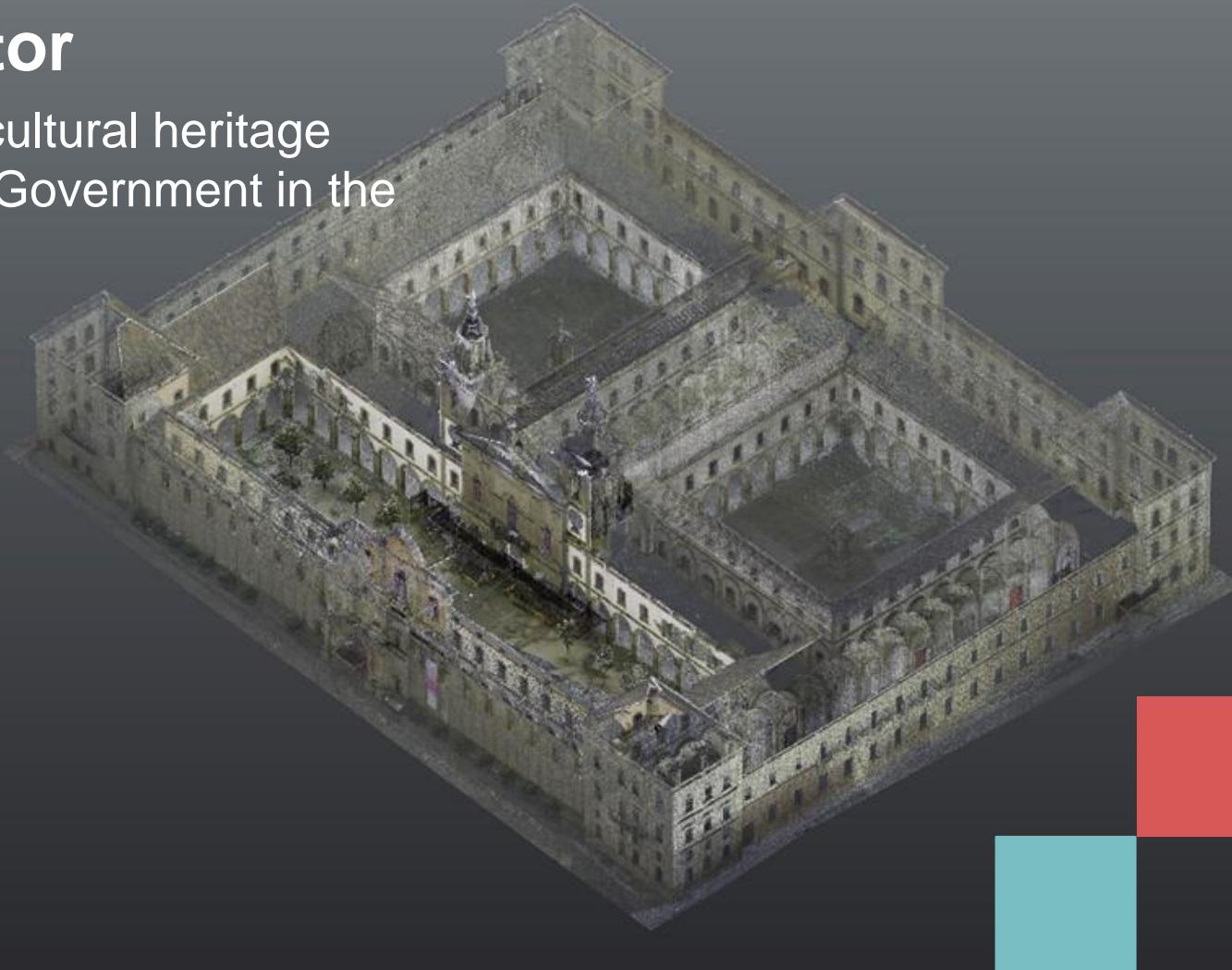
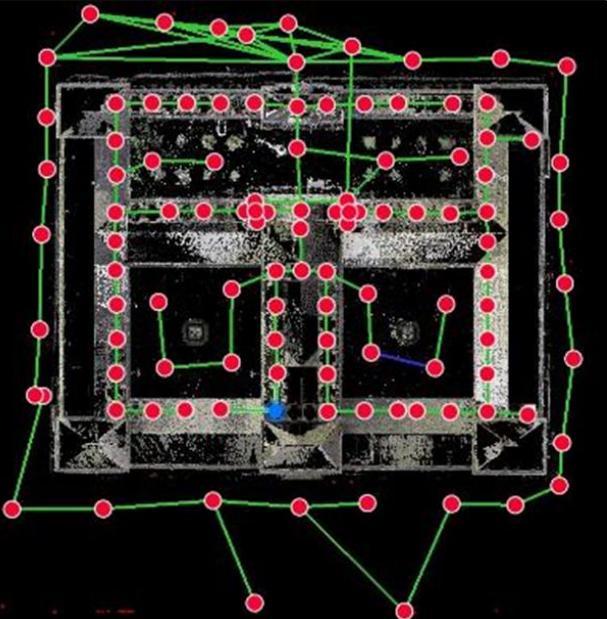
Generalitat de Catalunya  
Departament  
de Cultura

**Giravolt**

## 2. Professional Sector

Digital documentation of all cultural heritage buildings owned by Catalan Government in the coming years

- 113 scan positions
- 1.700 million points



## 2. Professional Sector

Research: Cal Posastre Iberian Monument  
3D models of the 35 remaining pieces  
New reconstruction hypothesis  
Museu d'Arqueologia de Catalunya/Par Virtual



## 2. Professional Sector

Workshops for architects, archaeologists, conservators, museum workers, etc.



### 3. Education

#Despertaelpatrimoni (Awaken Heritage)

- Workshops for teachers
- Students 3D scanning with their smart phones
- Schools can start their own activities
  - Institut Vilatzara



# 4. Audiences

Accessibility

3D printed models

for hands on activities

Museu d'Art Medieval. Vic



# 4. Audiences

New Narratives  
Virtual Reality  
Sant Climent pilot



## 4. Audiences

New Narratives

Immersive Experiences

Ideal Barcelona: Burzón\*Comenge



# Giravolt, work in progress

Edit Mode

## Next goals

- Educational 3D kit for schools: VR, AR
- Bringing heritage to people with special needs
- Best Practice document
- Detailed captures



POWERED BY  
**NiRA**



# Garrell constructions, Art Brut



Generalitat de Catalunya  
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Giravolt

# Art Brut. Garrell constructions



Josep Pijiula, "Garrell"

# Art Brut. Garrell constructions



# Art Brut. Garrell constructions



# Art Brut. Garrell constructions



# Art Brut. Garrell constructions



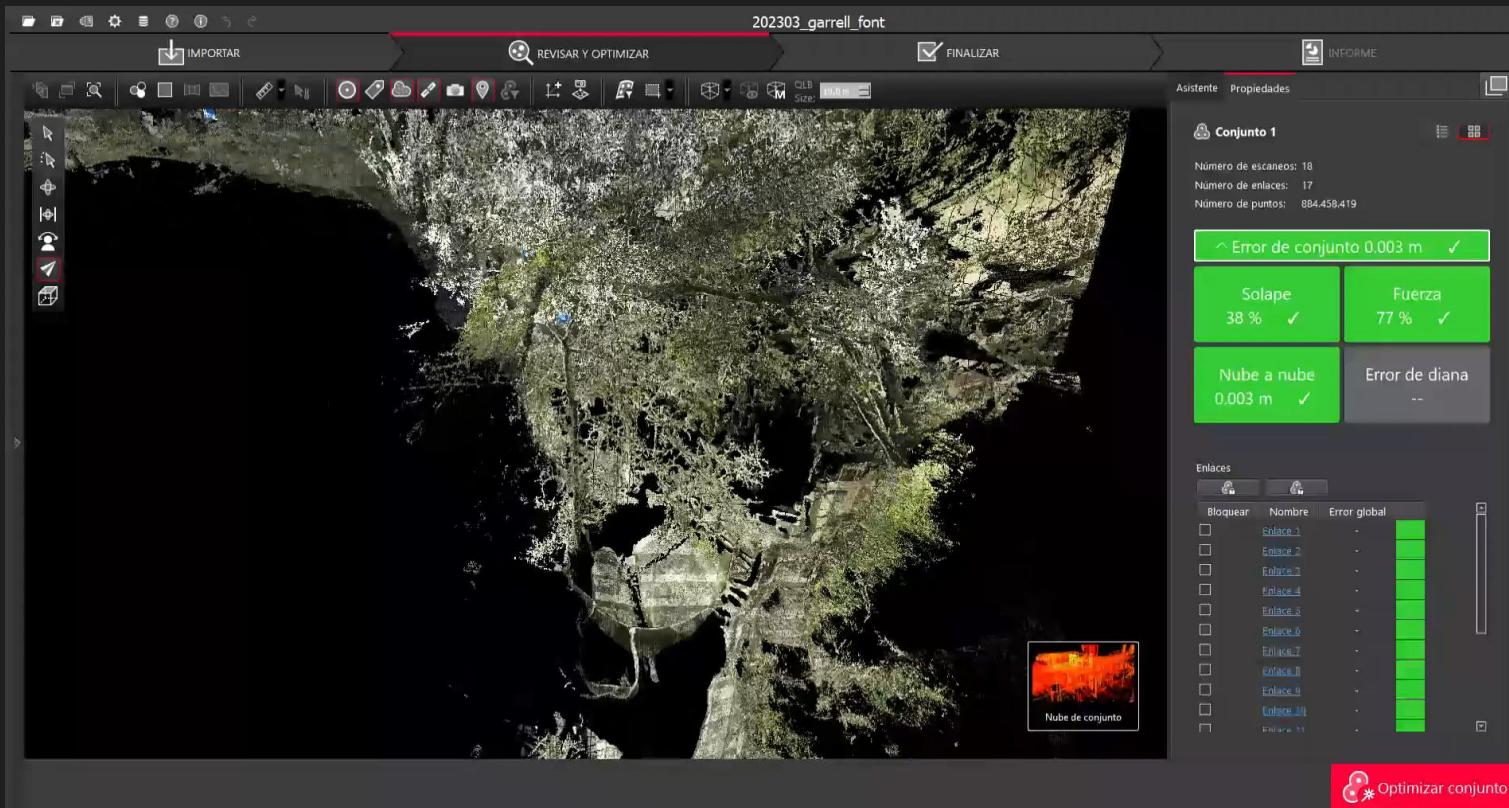
# Art Brut. Garrell constructions



# Art Brut. Garrell constructions

## Documentation:

- Laser scan
- Photogrammetry
- Video



# Art Brut. Garrell constructions

Documentation:

- Laser scan
- Photogrammetry
- Video



# Art Brut. Garrell constructions

Documentation:

- Nerf



# Thanks!!