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# Techniques de production et exploitation de numérisations 3D de sigillés gallo-romaines (projet SIAMA)

Joel Courant, Marie-Laure Maraval

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Submitted on 31 Mar 2020

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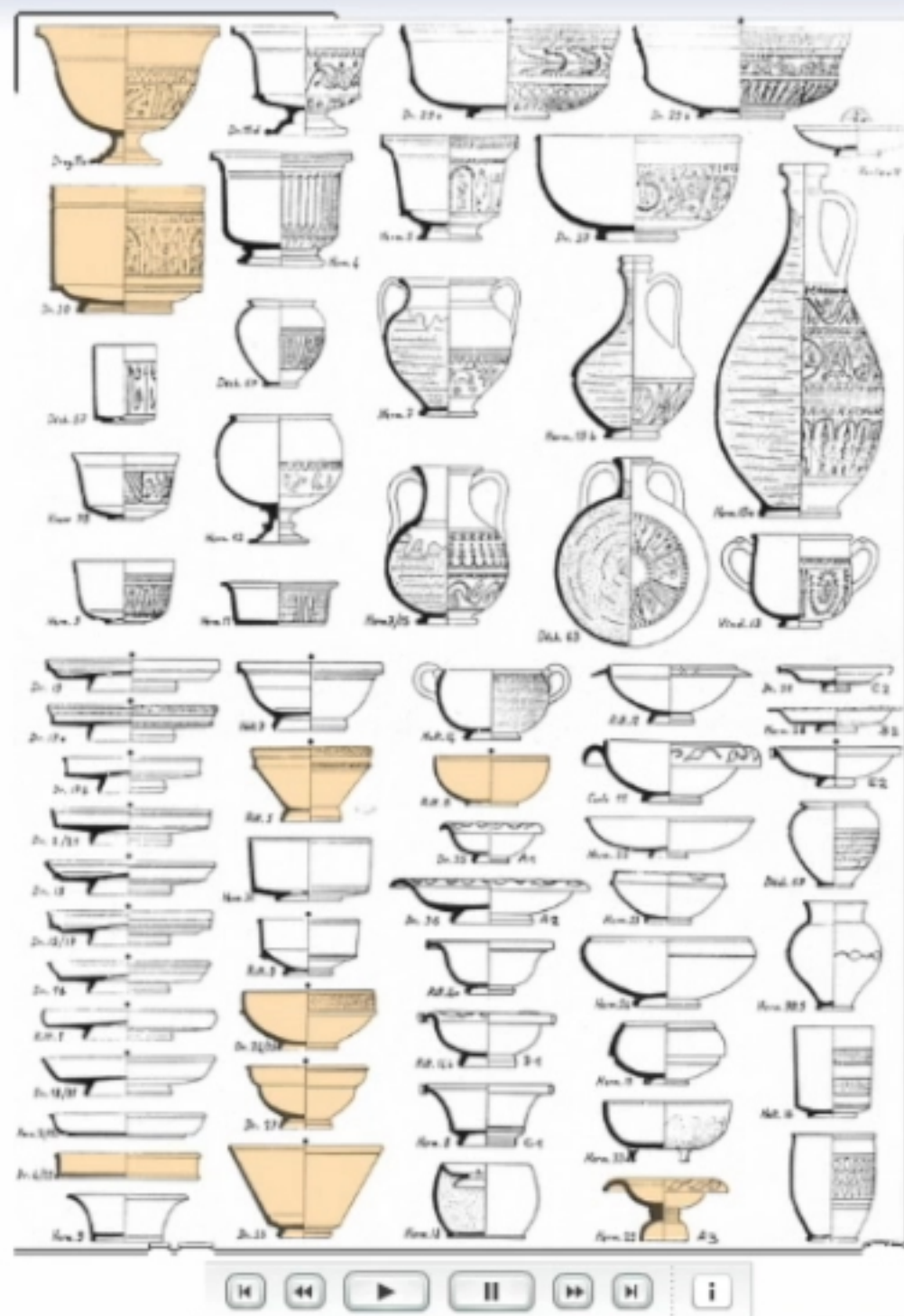
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# S.I.A.M.A.

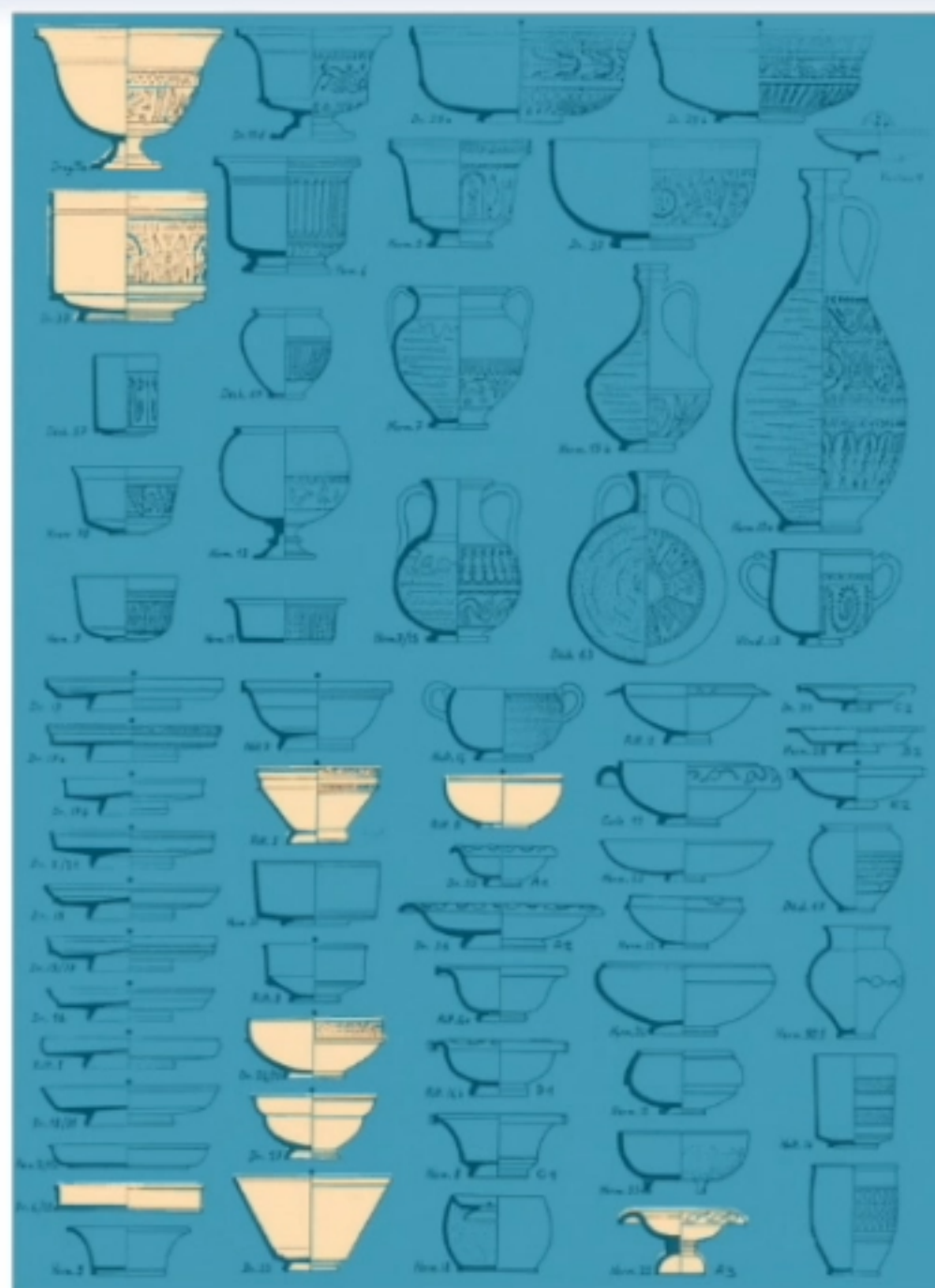
Systeme  
d'Imagerie et  
d'Analyse pour le  
Mobilier  
Archéologique



# Sélection de 9 types de sigillées



# Sélection de 9 types de sigillées



# Sélection de 9 types de sigillées



# SCANNER 3D Minolta VI910



Vue de face  
laser et CCD



3 lentilles  
interchangeables



Panneau arrière



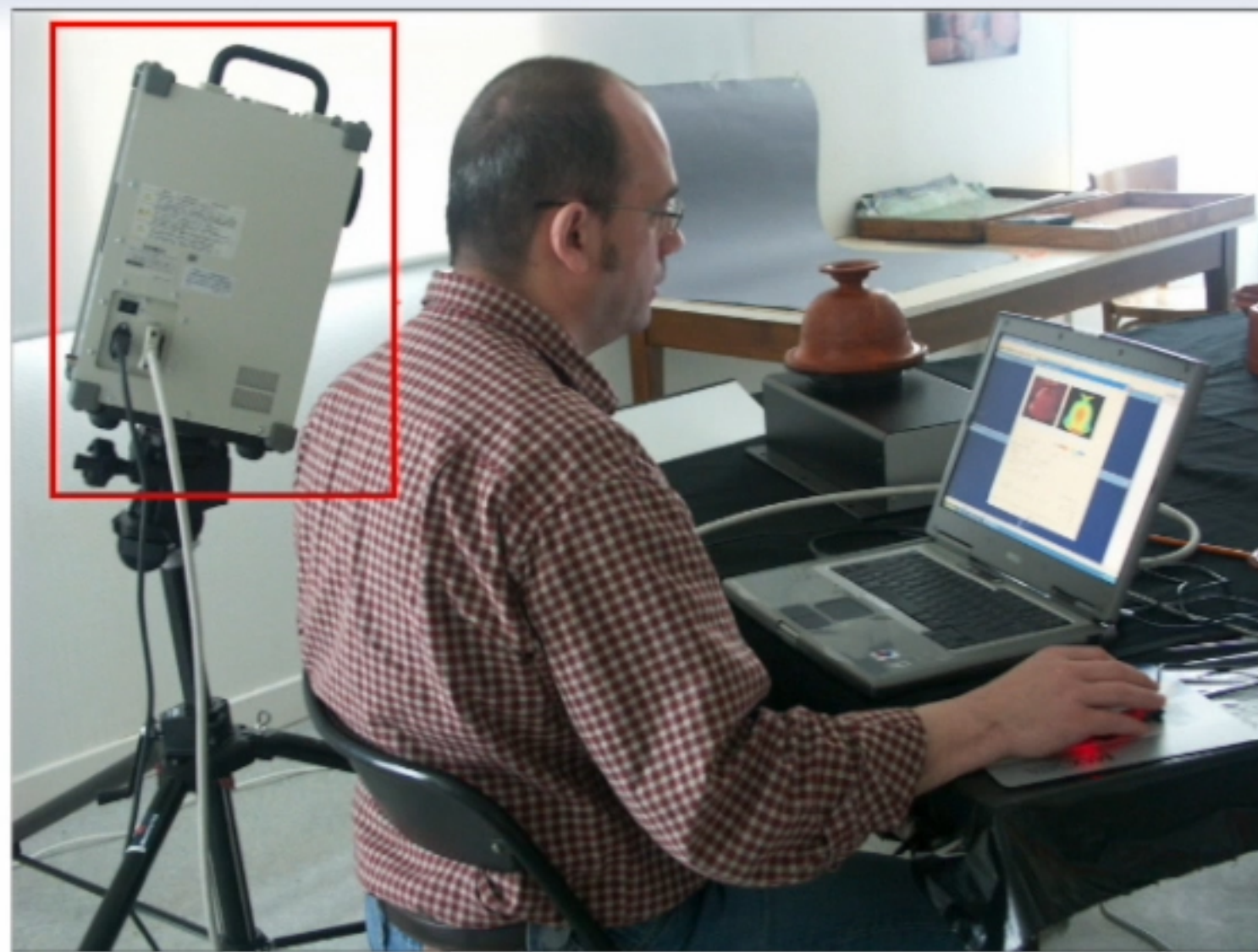
Plateau rotatif  
incrémental

# Numérisation



Phase de numérisation

# Numérisation



Phase de numérisation

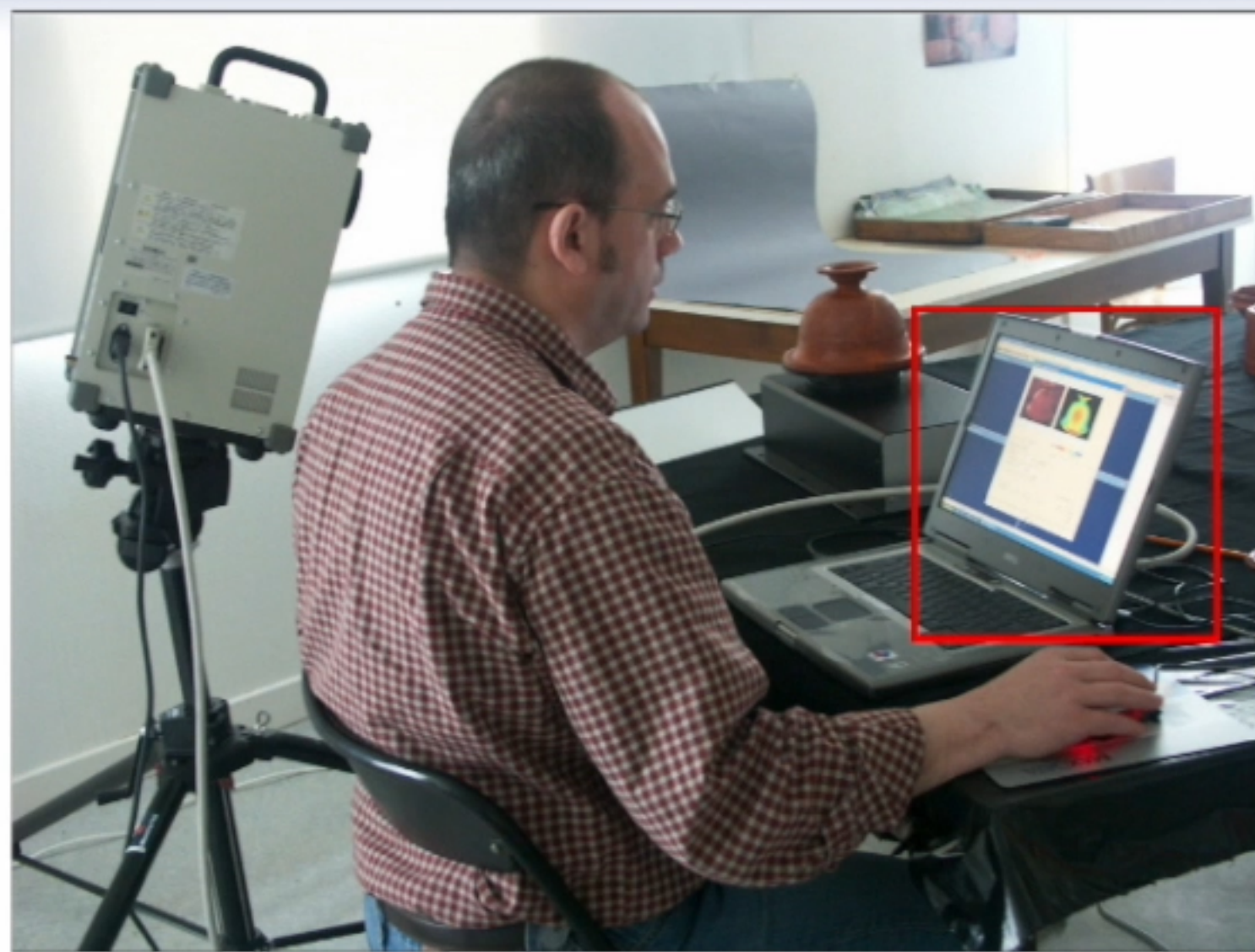


# Numérisation



Phase de numérisation

# Numérisation



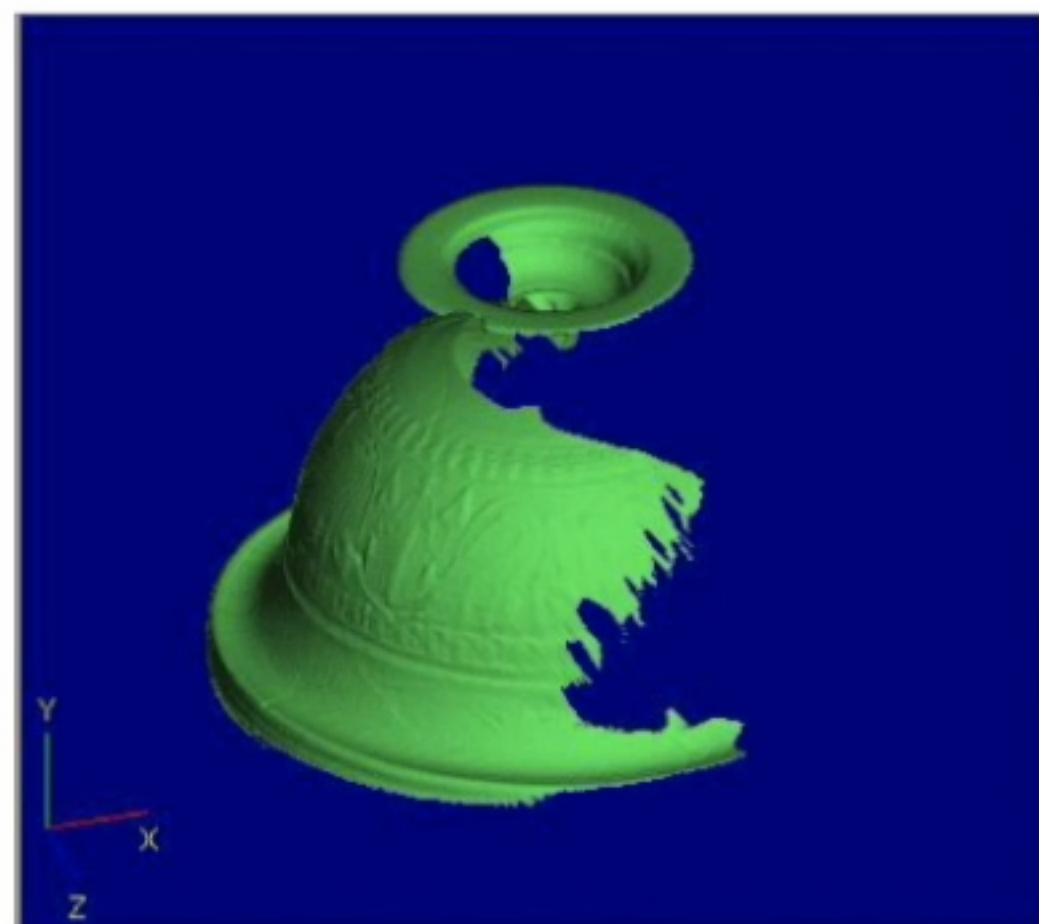
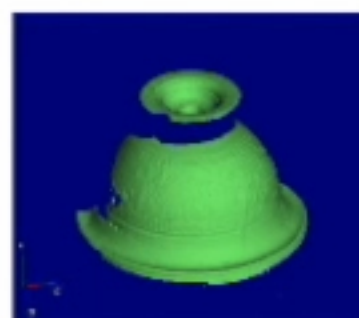
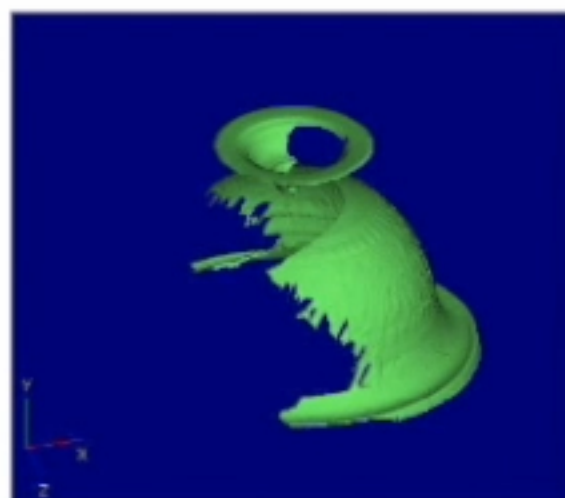
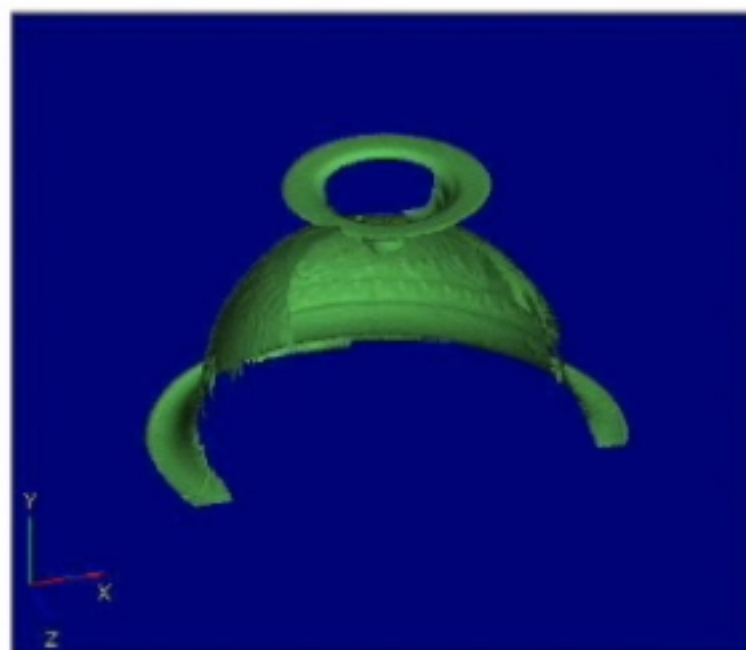
Phase de numérisation

# Numérisation



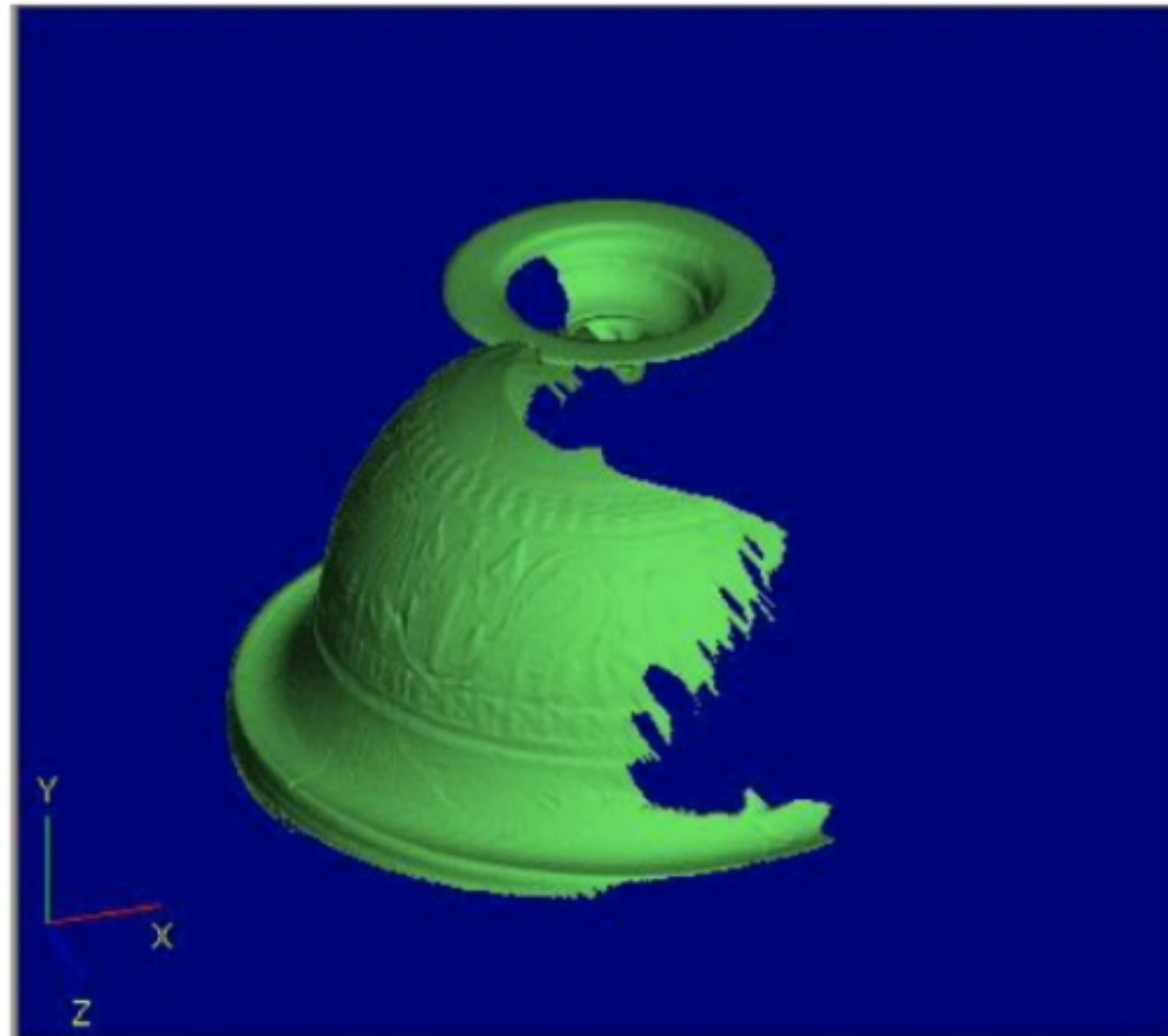
Phase de numérisation

# POLYGON EDITING TOOL

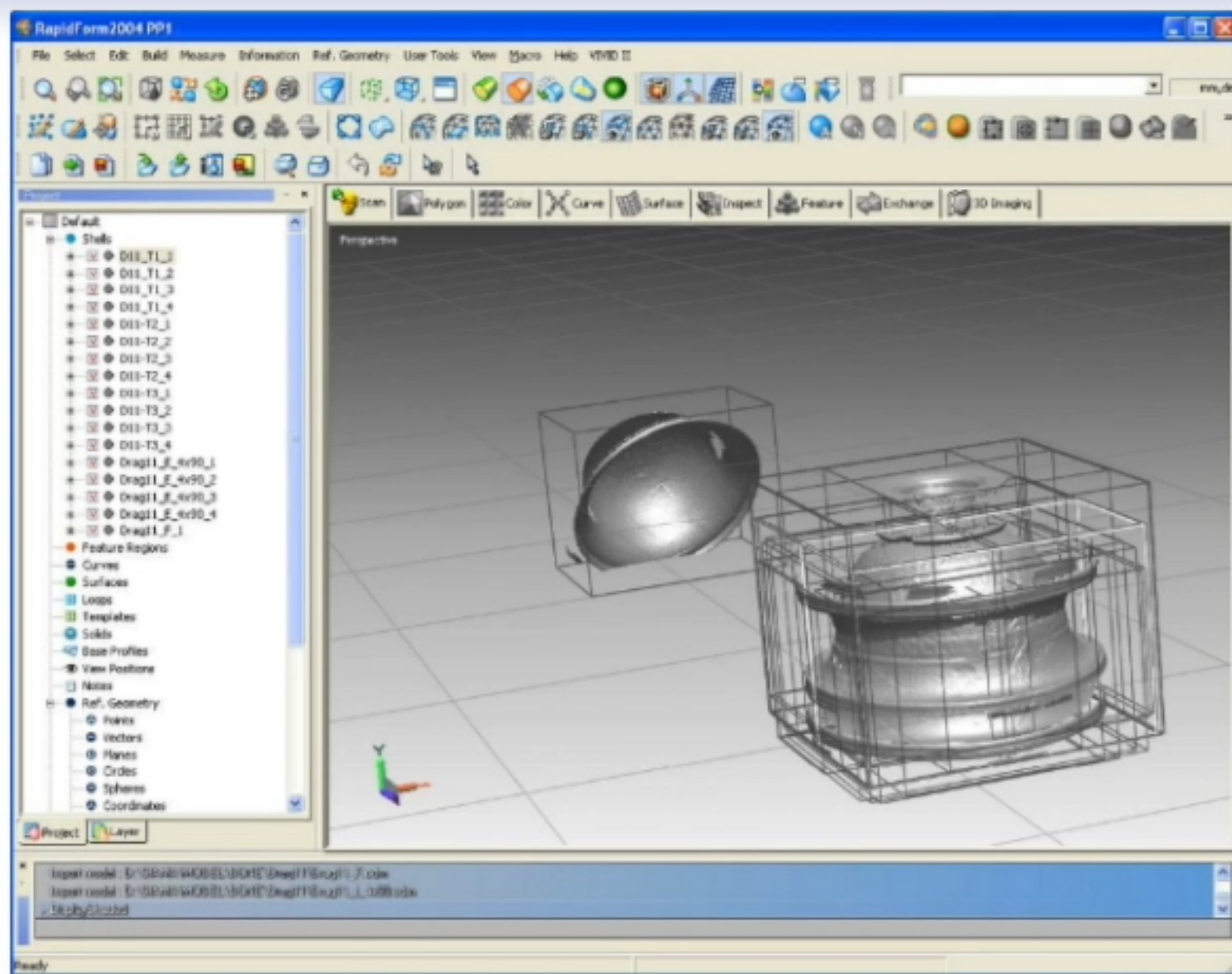


CAPTURES ISSUES DE P.E.T.

# POLYGON EDITING TOOL



# PROJET RAPIDFORM2004

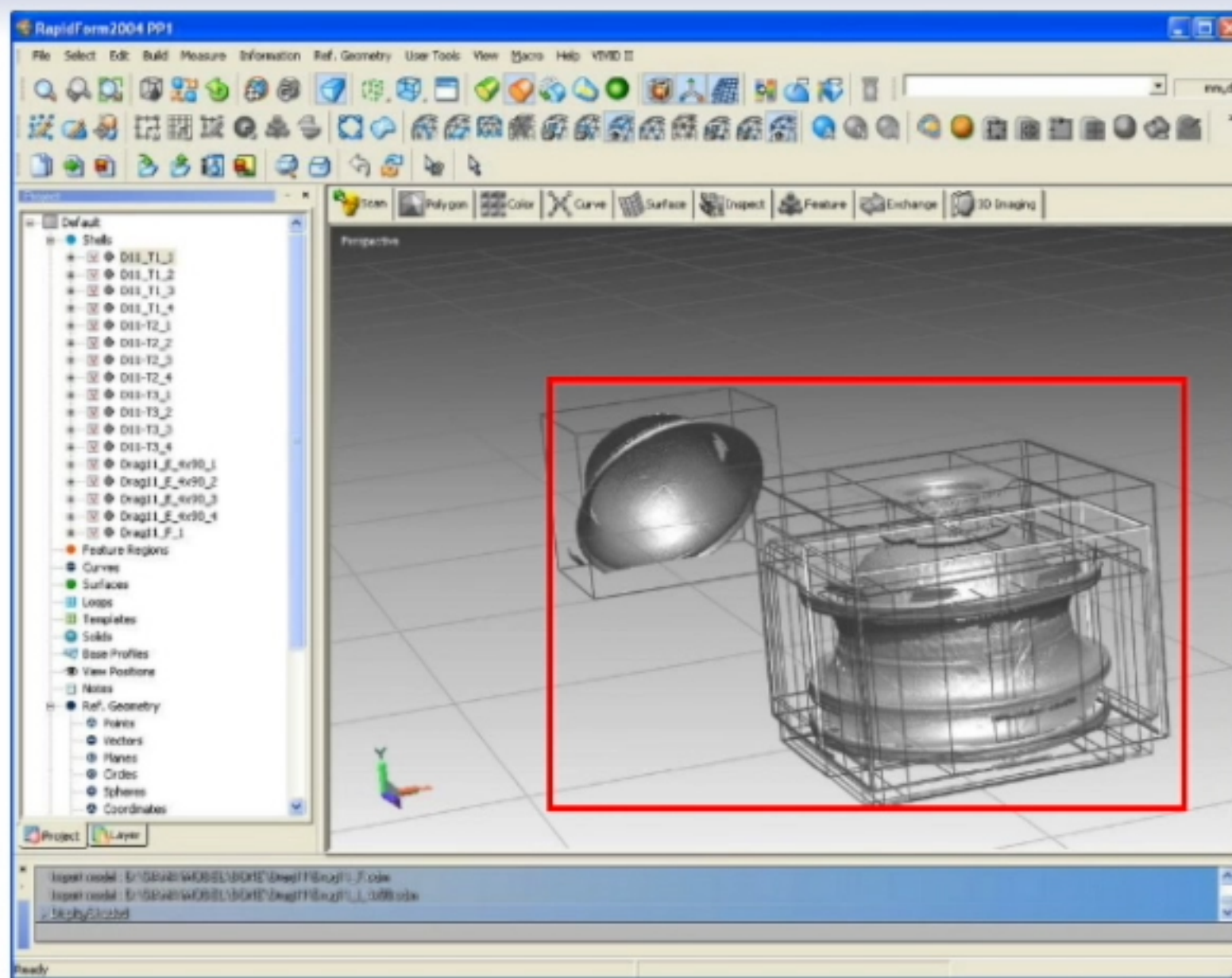


## IMPORTATION EN PROJET RAPIDFORM2004



Lyon 18-19-20 Mai 2005

# PROJET RAPIDFORM2004

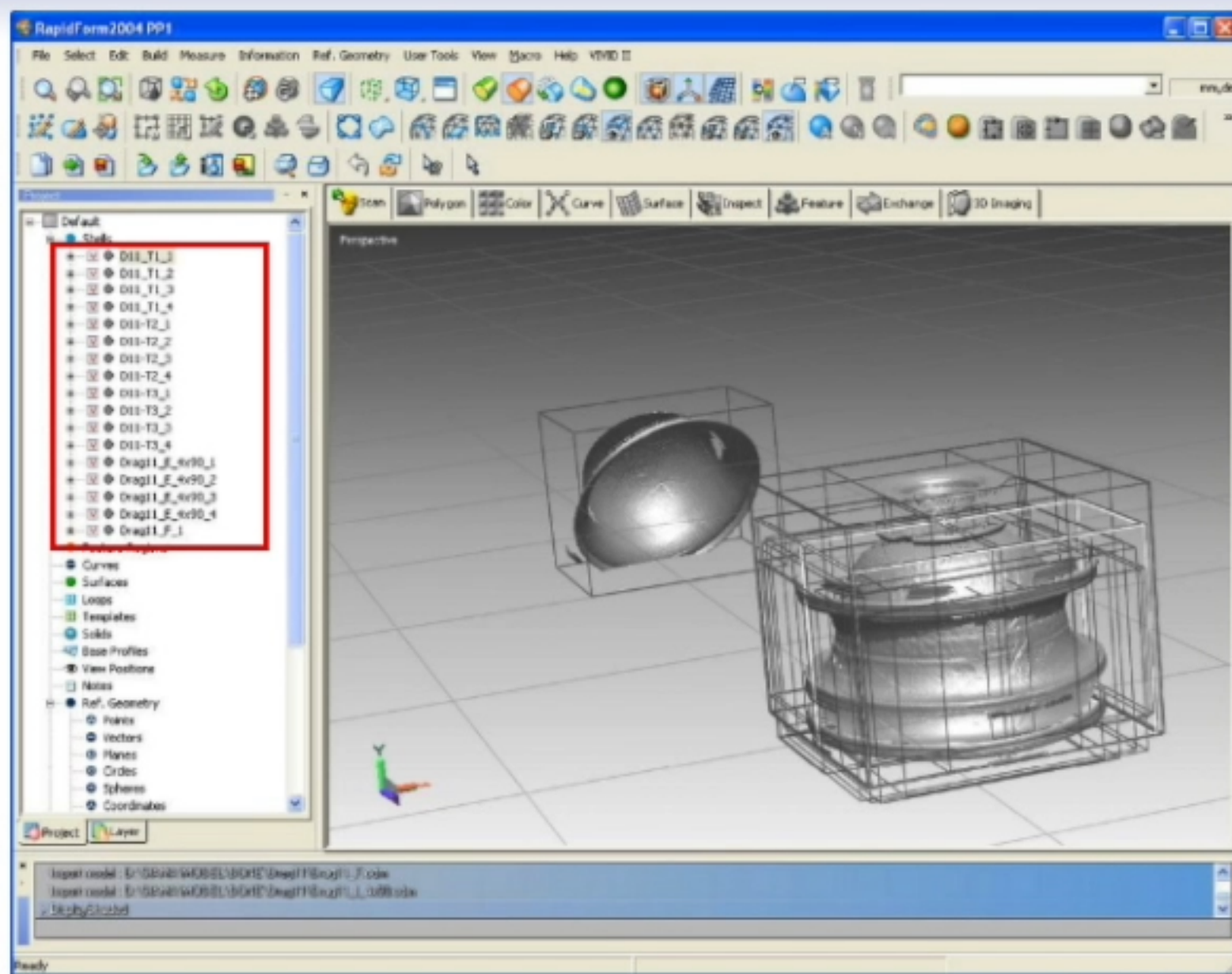


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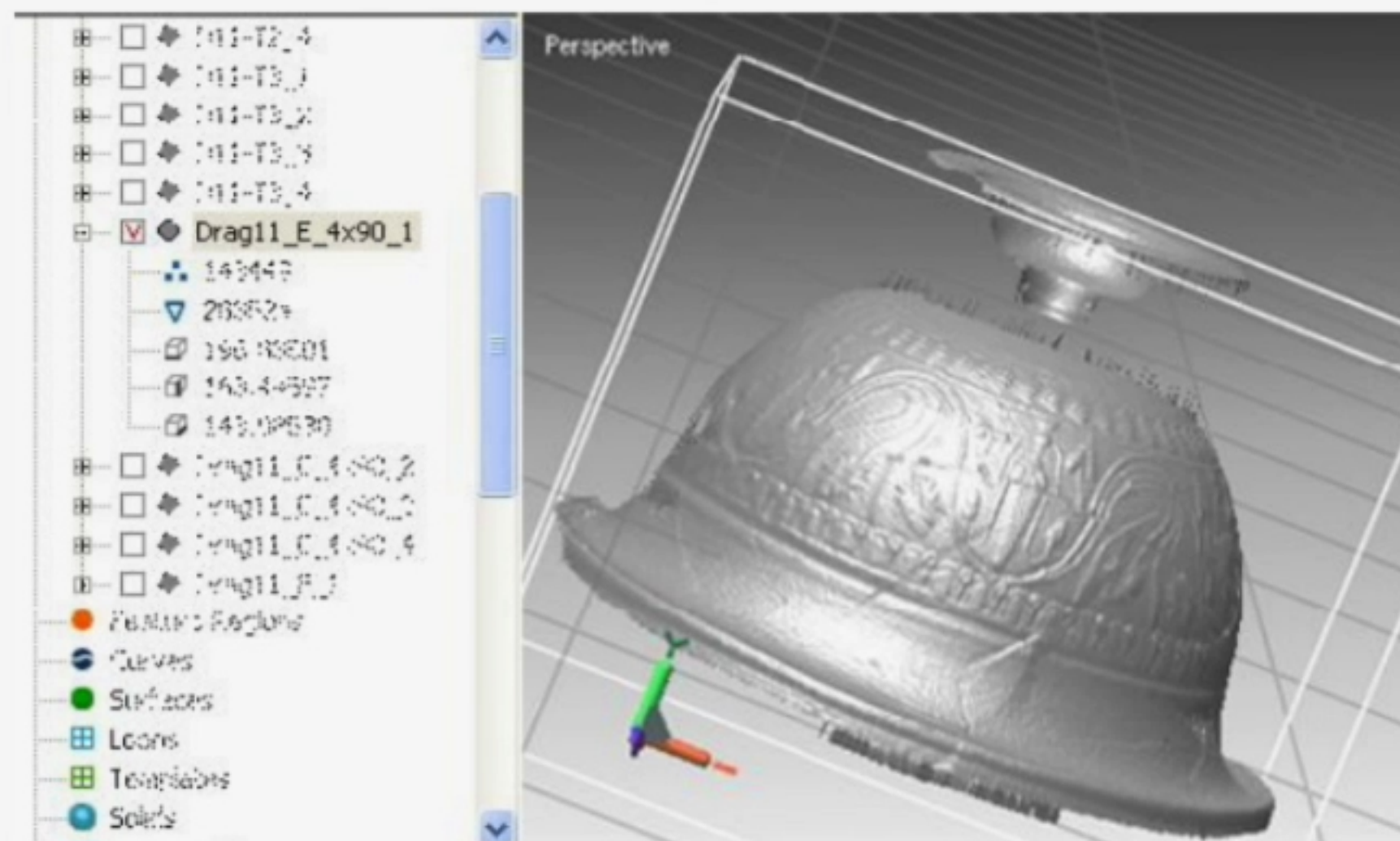
# PROJET RAPIDFORM2004



## IMPORTATION EN PROJET RAPIDFORM2004

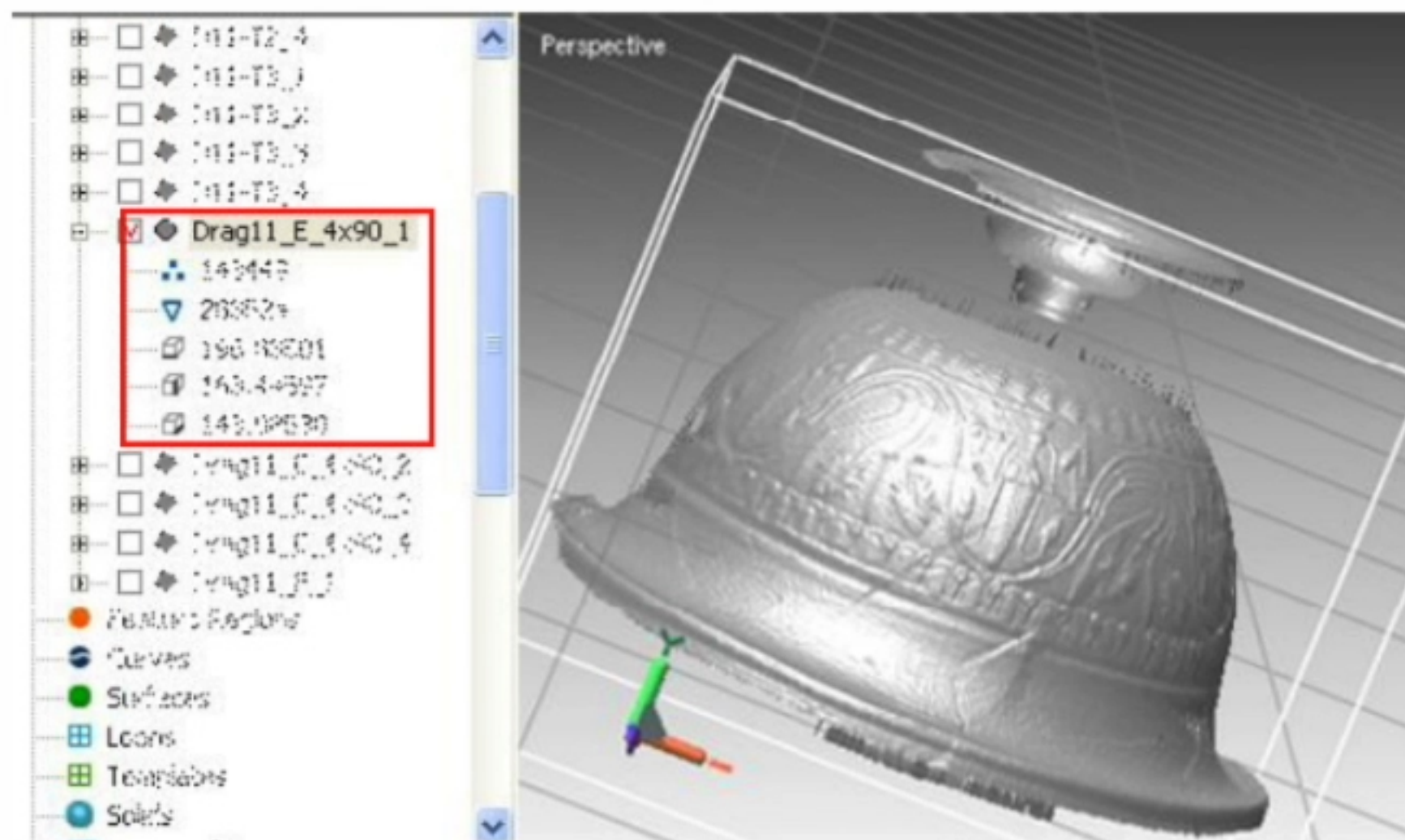


# PREPARATION DES VUES



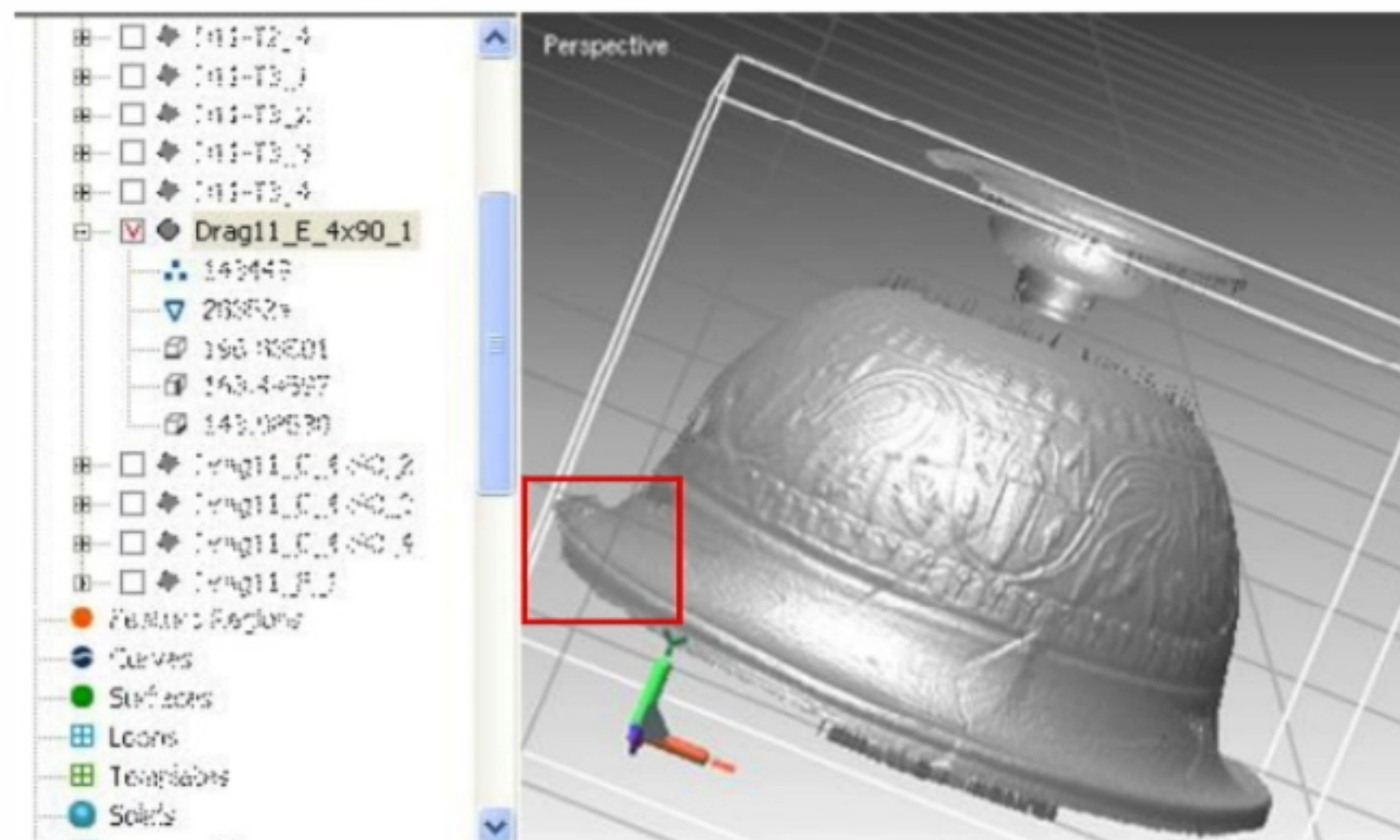
ISOLEMENT POUR NETTOYAGE DE CHACUNE DES VUES

# PREPARATION DES VUES



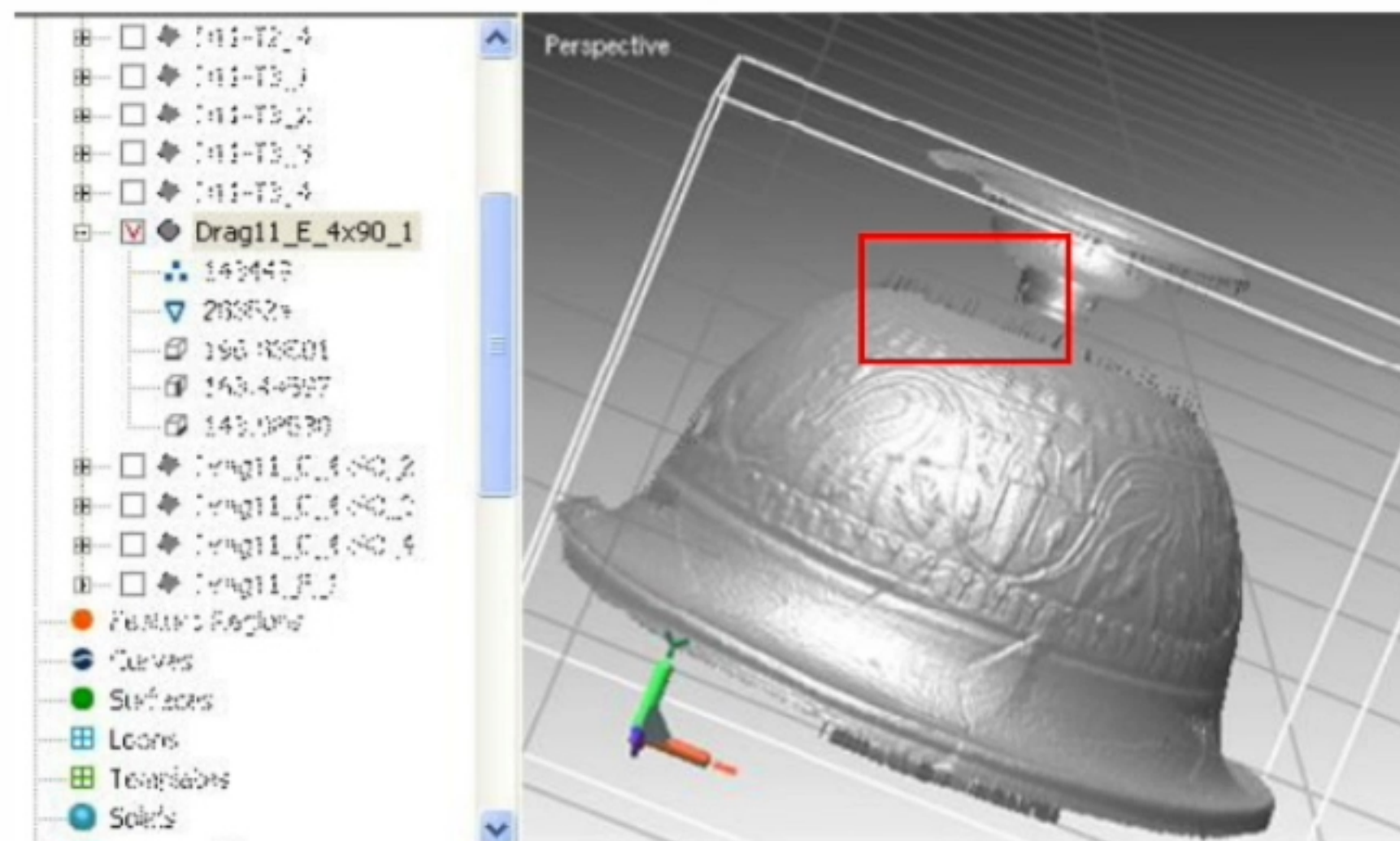
ISOLEMENT POUR NETTOYAGE DE CHACUNE DES VUES

# PREPARATION DES VUES



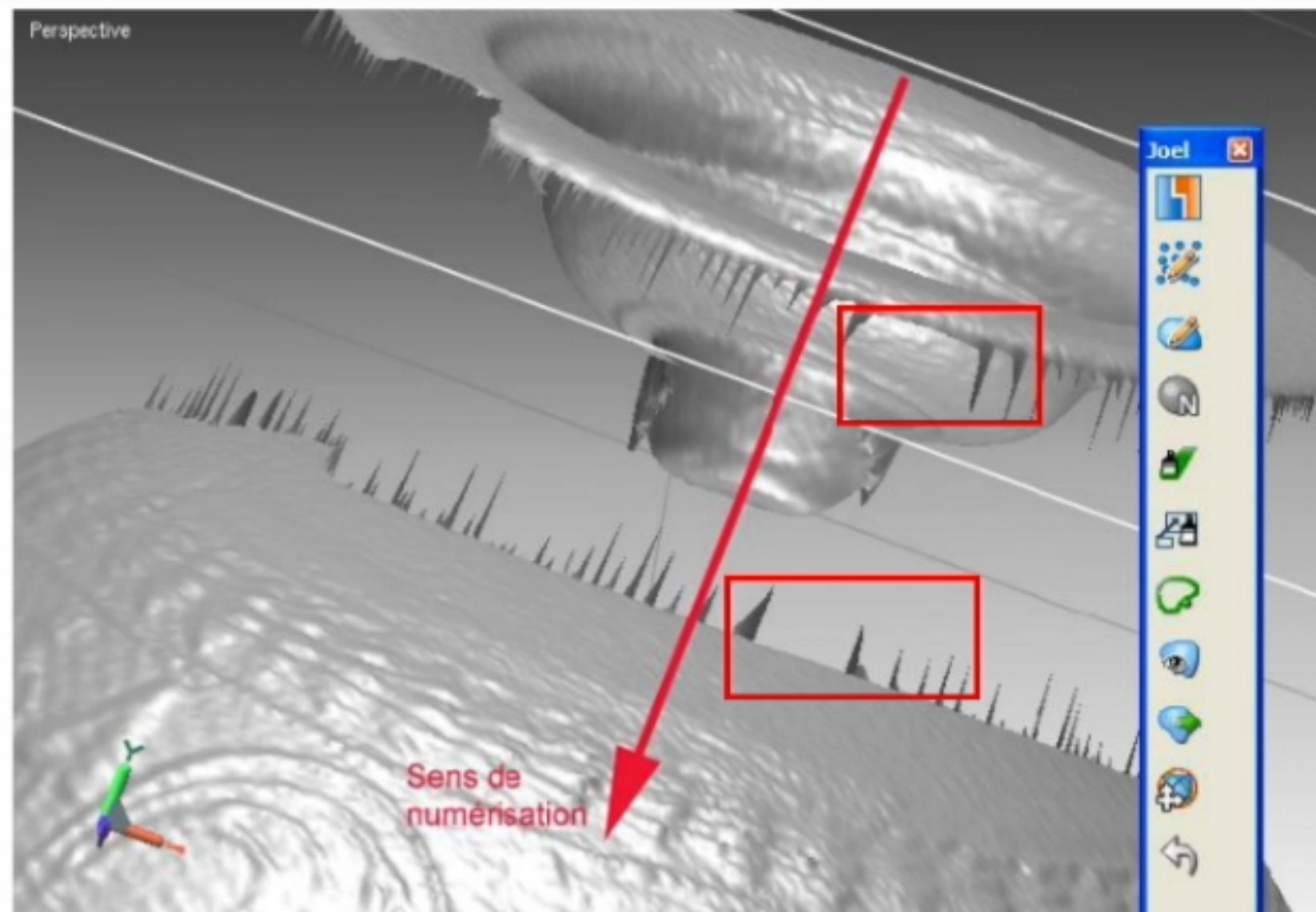
ISOLEMENT POUR NETTOYAGE DE CHACUNE DES VUES

# PREPARATION DES VUES



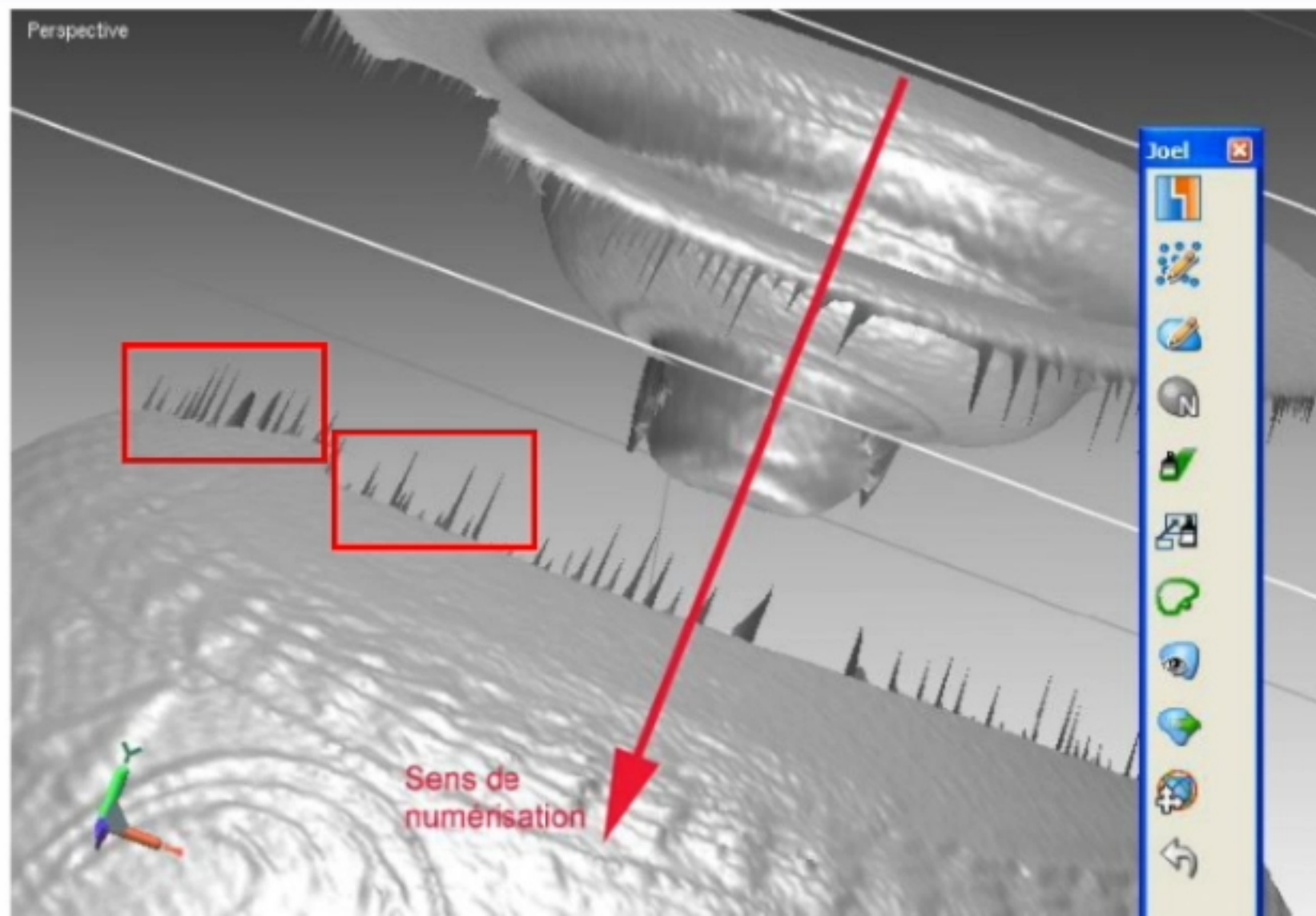
ISOLEMENT POUR NETTOYAGE DE CHACUNE DES VUES

# SPIKES



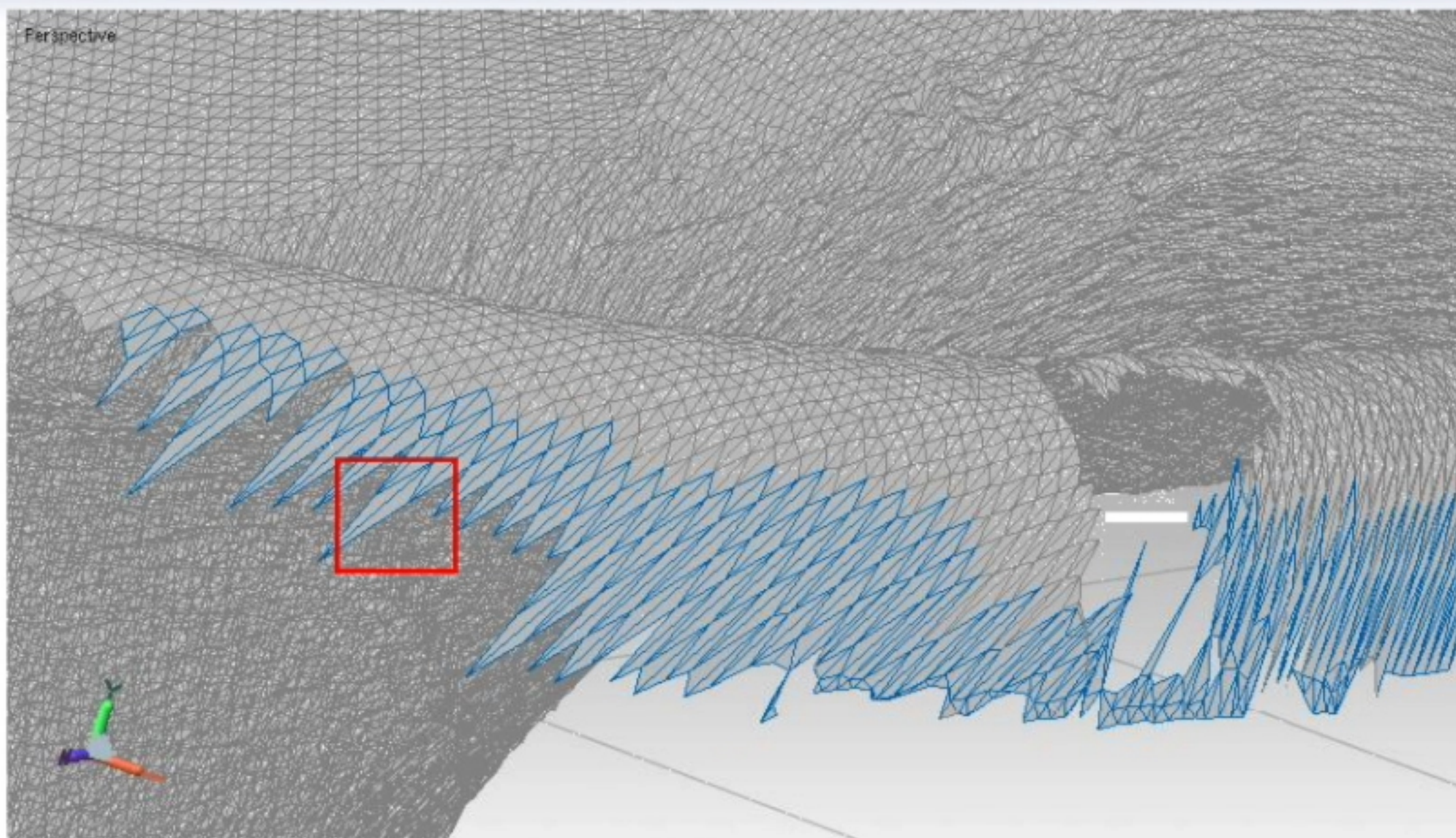
CAPTURE DE POINTS PARASITES

# SPIKES



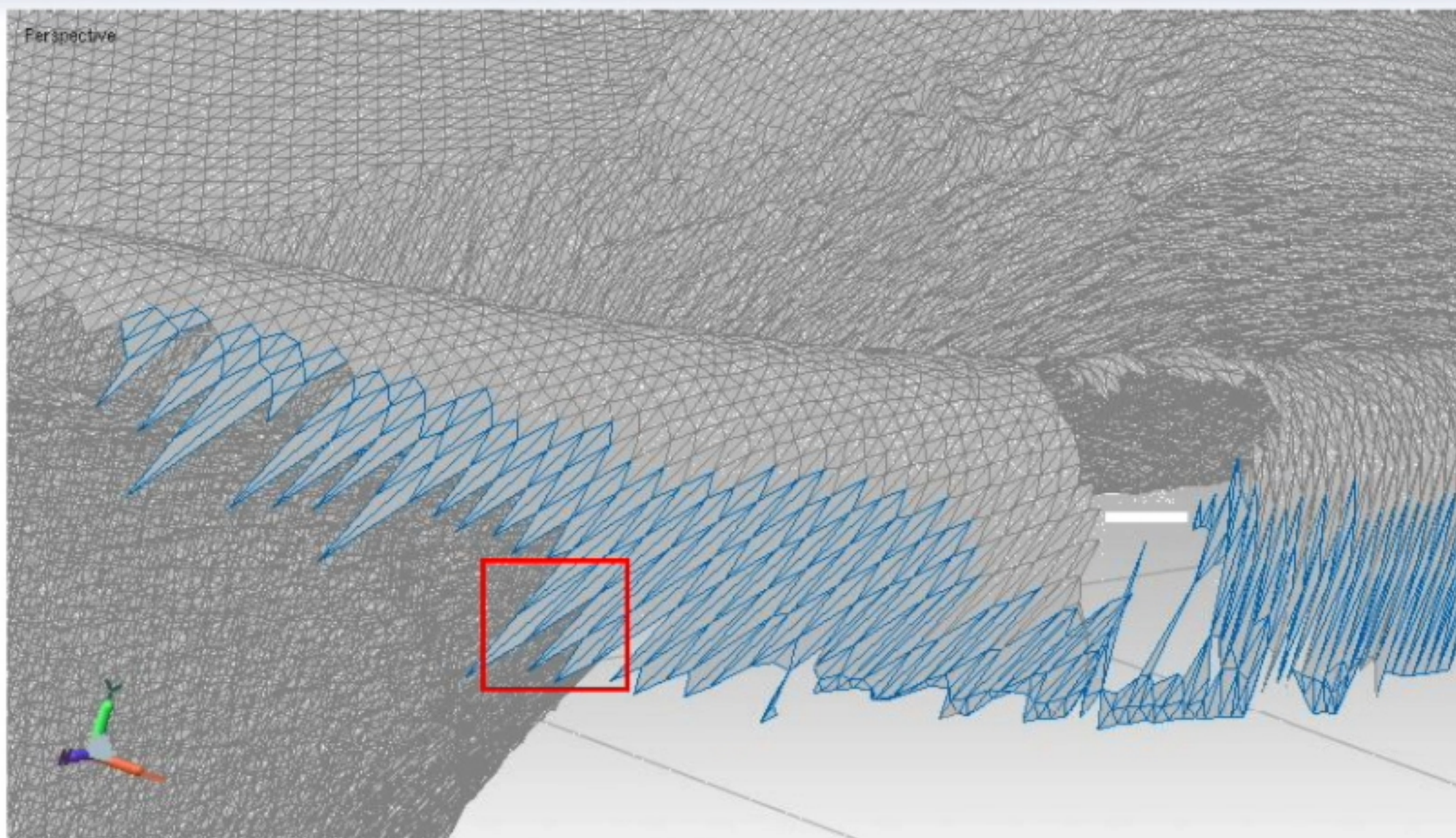
CAPTURE DE POINTS PARASITES

# IDENTIFICATION DE SPIKES



IDENTIFICATION PAR LA DISPROPORTION DES FACETTES

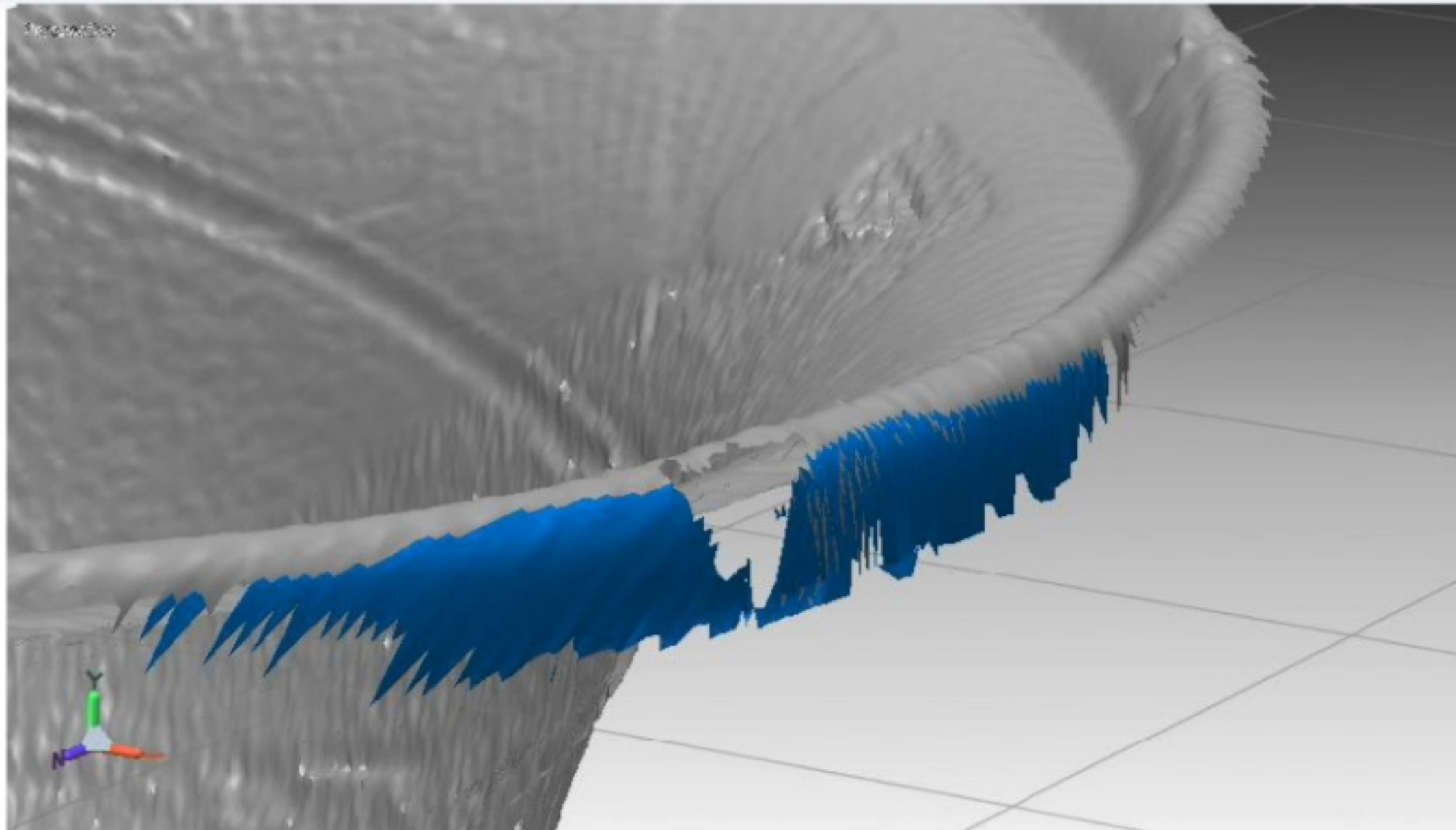
# IDENTIFICATION DE SPIKES



IDENTIFICATION PAR LA DISPROPORTION DES FACETTES

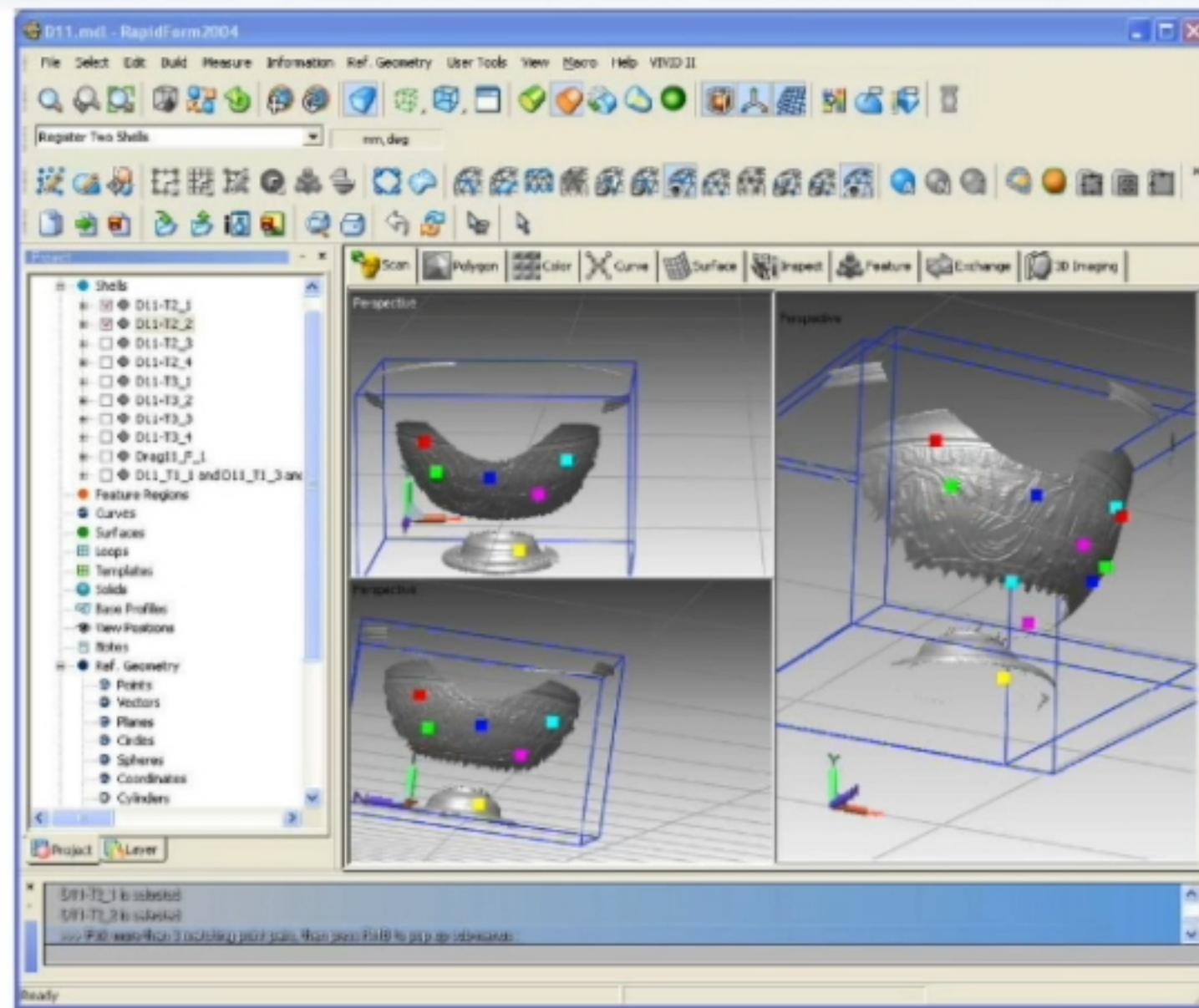


# SELECTION DES FACETTES



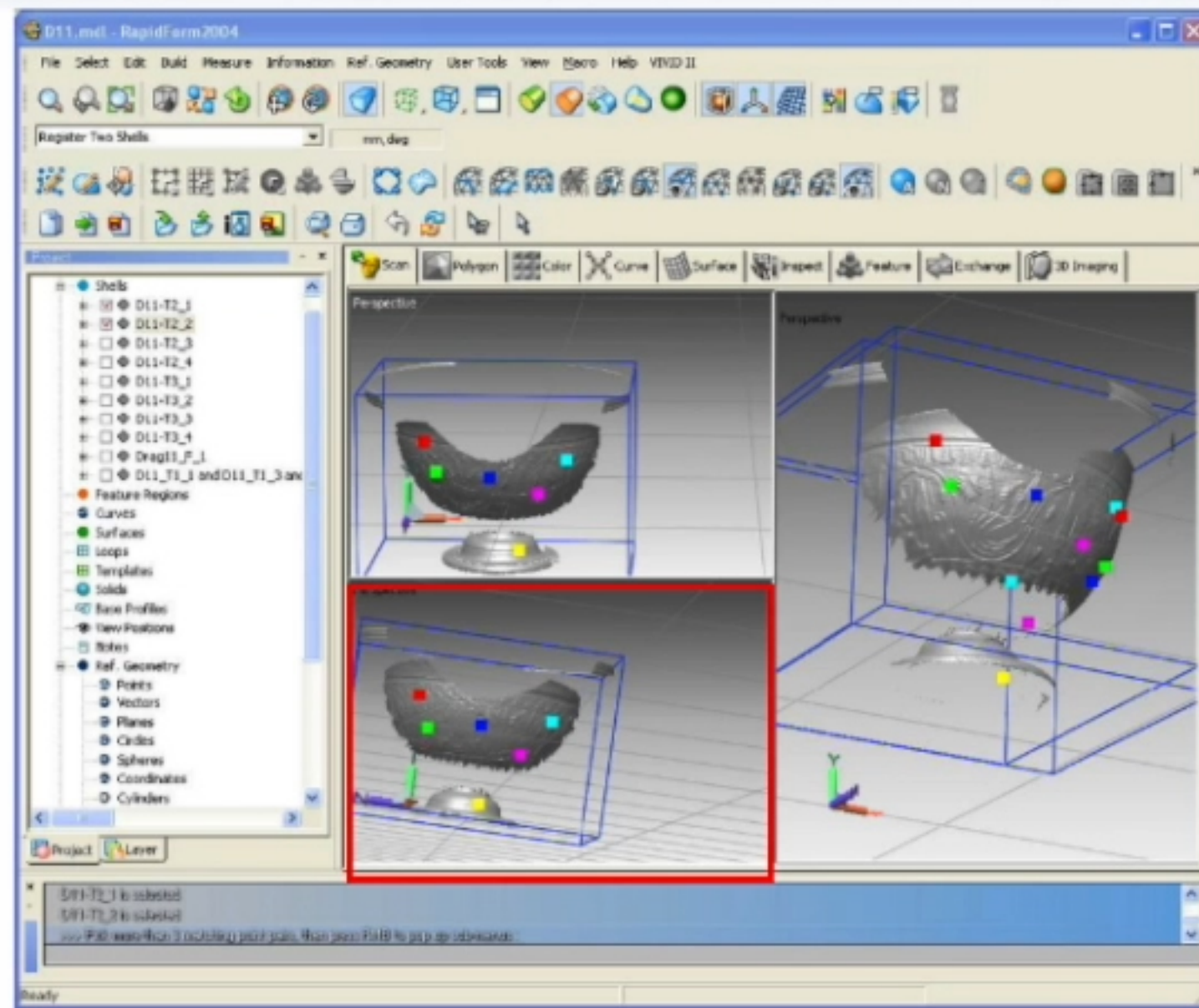
SELECTION VISUELLE

# ASSEMBLAGE FINAL



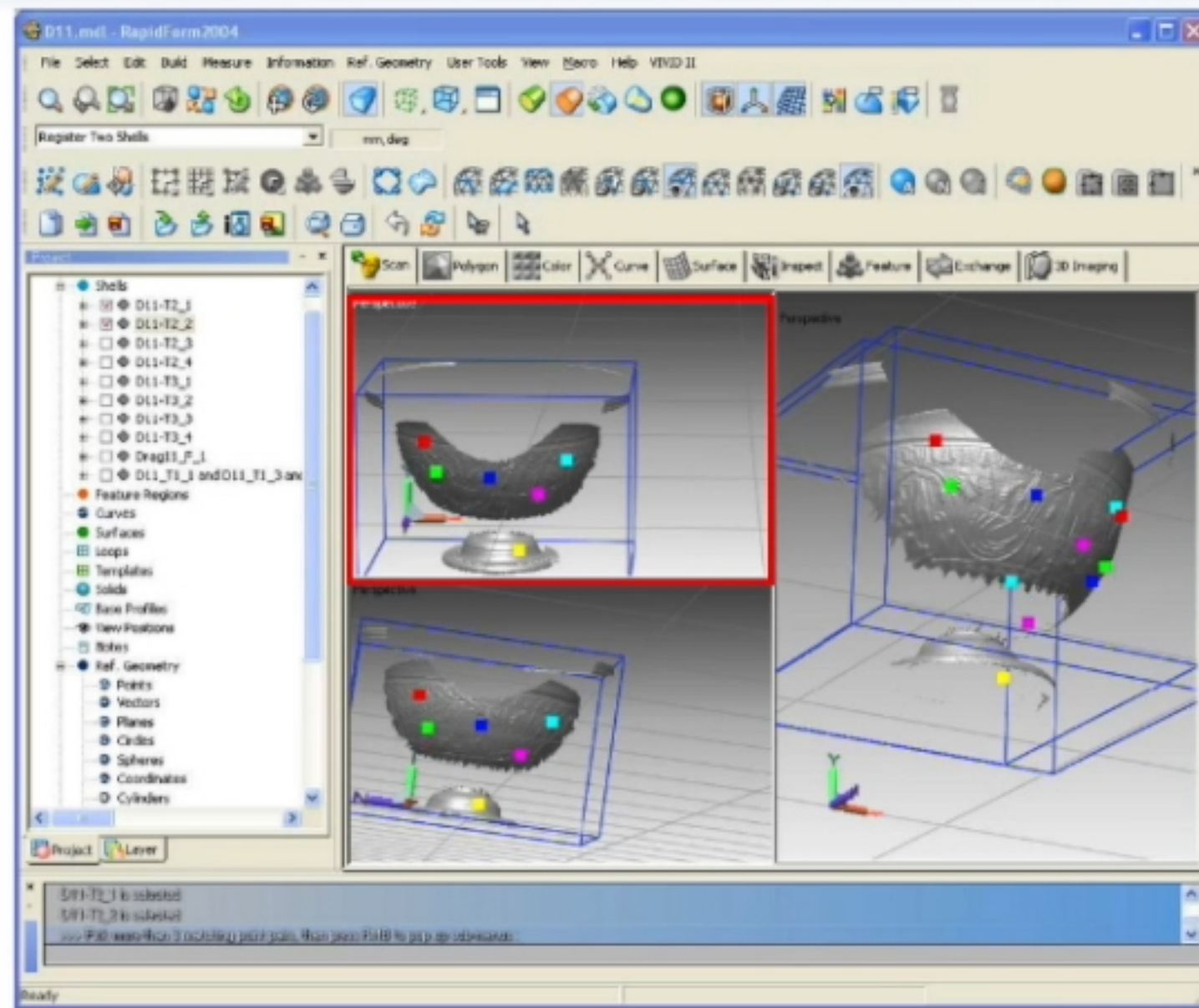
MISE EN CORRESPONDANCE DES VUES

# ASSEMBLAGE FINAL



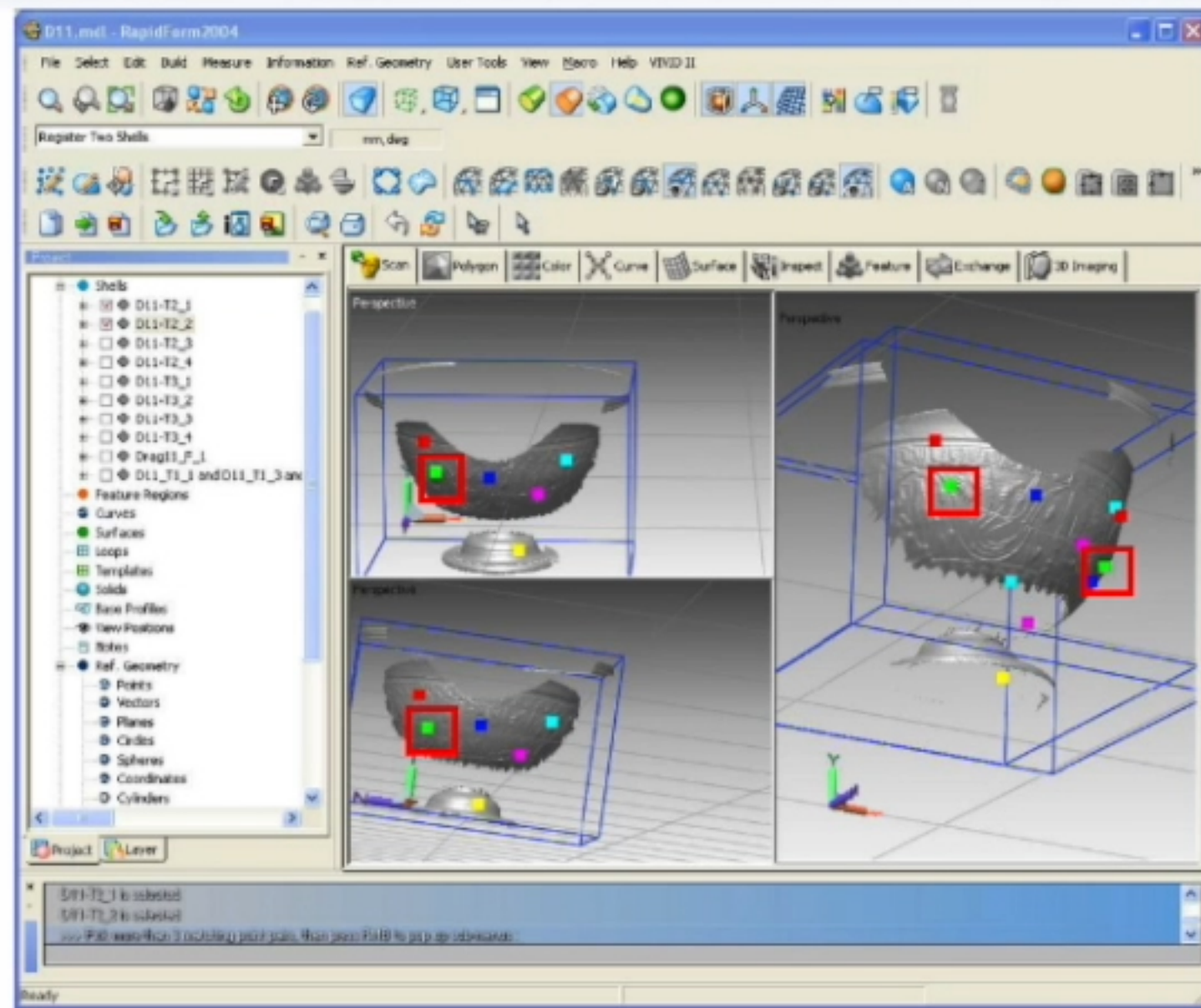
MISE EN CORRESPONDANCE DES VUES

# ASSEMBLAGE FINAL



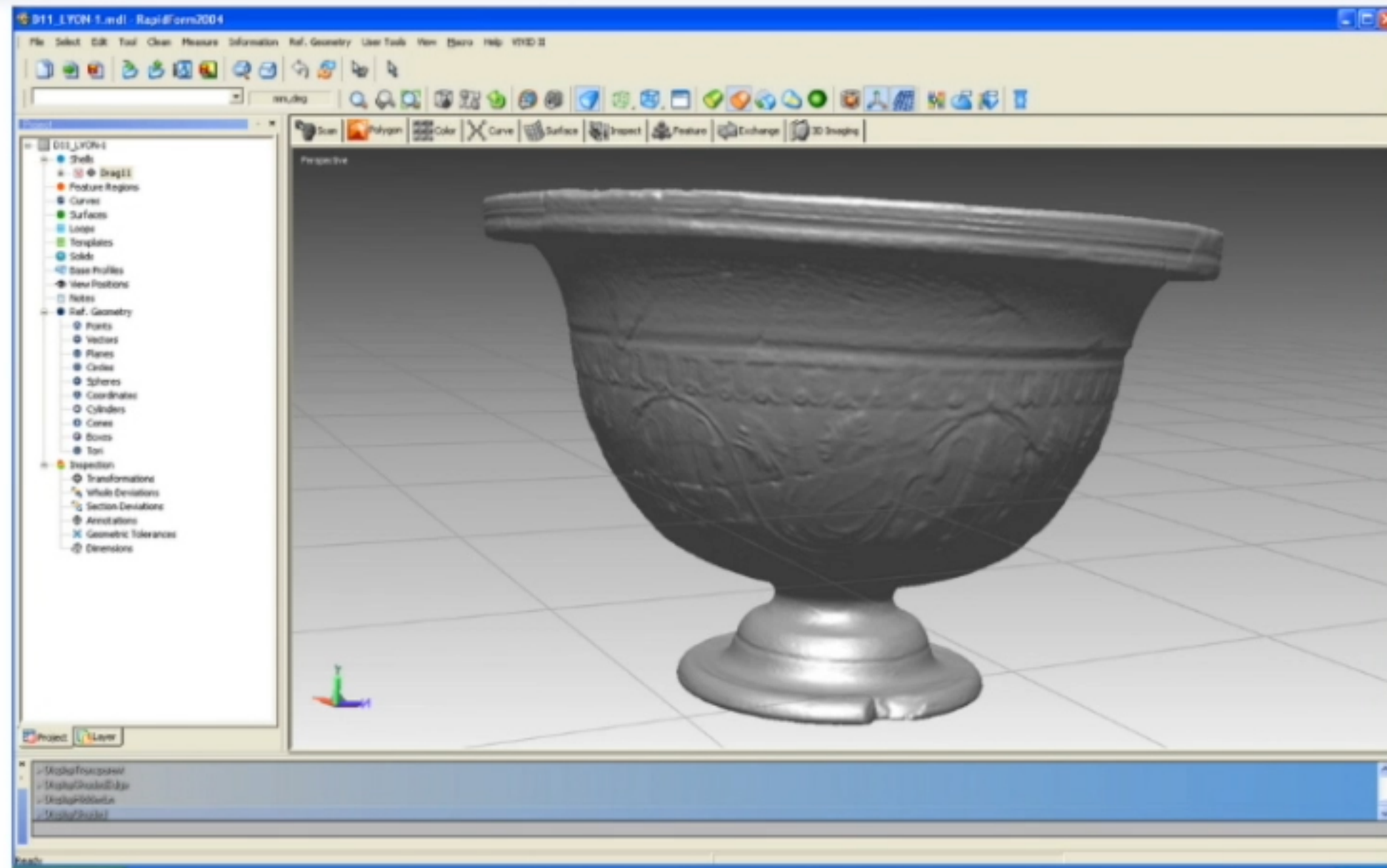
MISE EN CORRESPONDANCE DES VUES

# ASSEMBLAGE FINAL



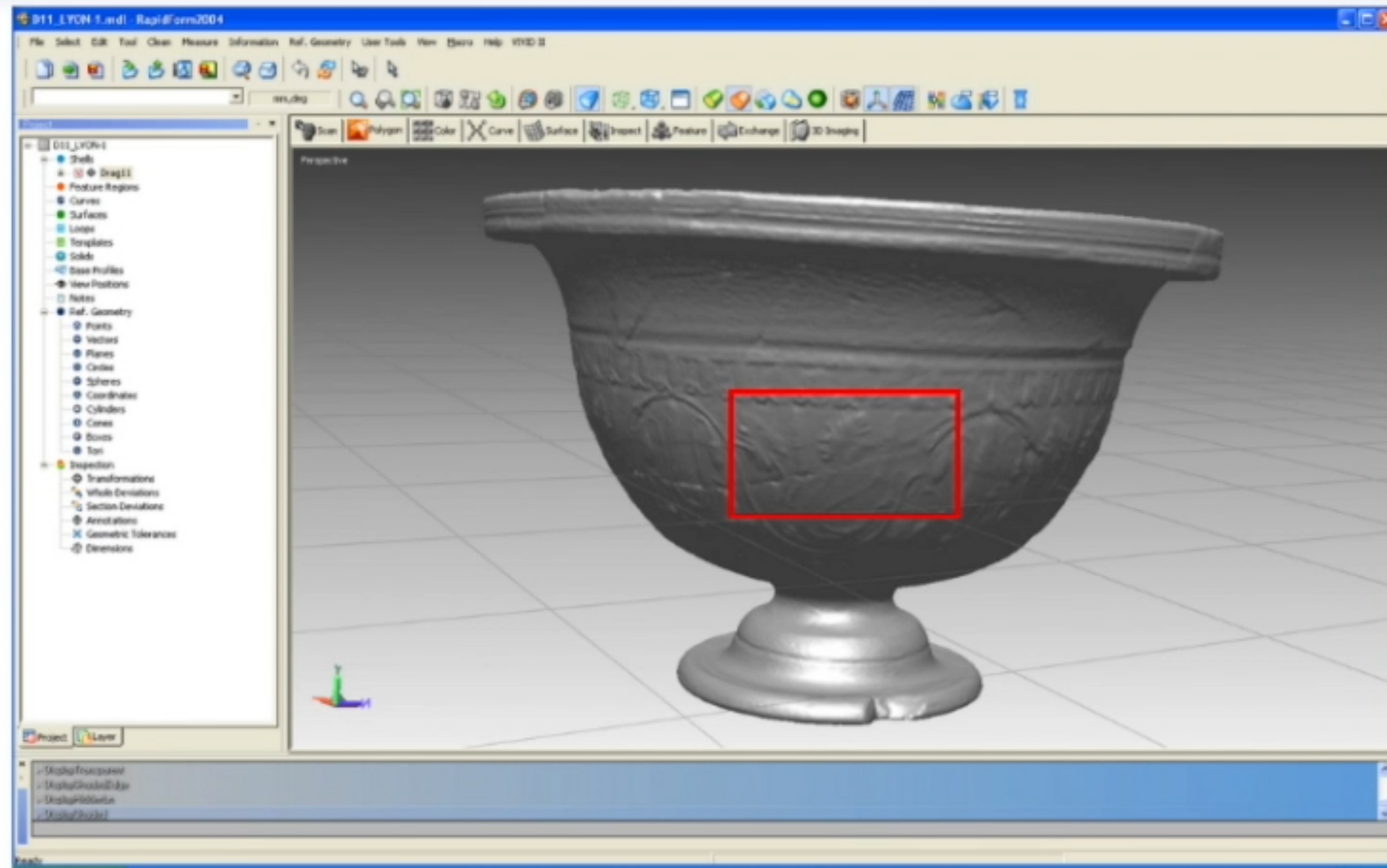
MISE EN CORRESPONDANCE DES VUES

# FUSION DES VUES



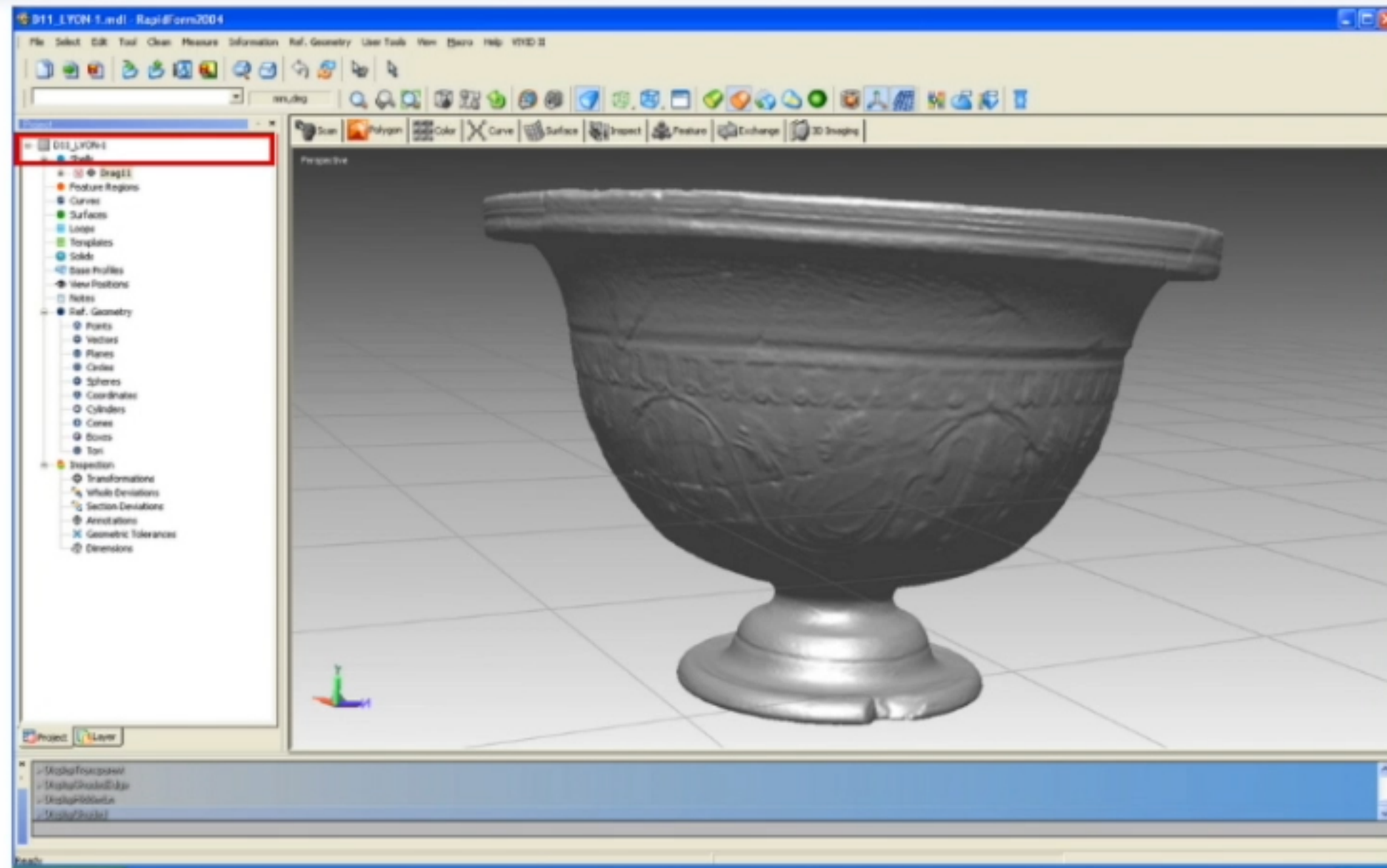
FUSION DES VUES EN UN VOLUME UNIQUE

# FUSION DES VUES



FUSION DES VUES EN UN VOLUME UNIQUE

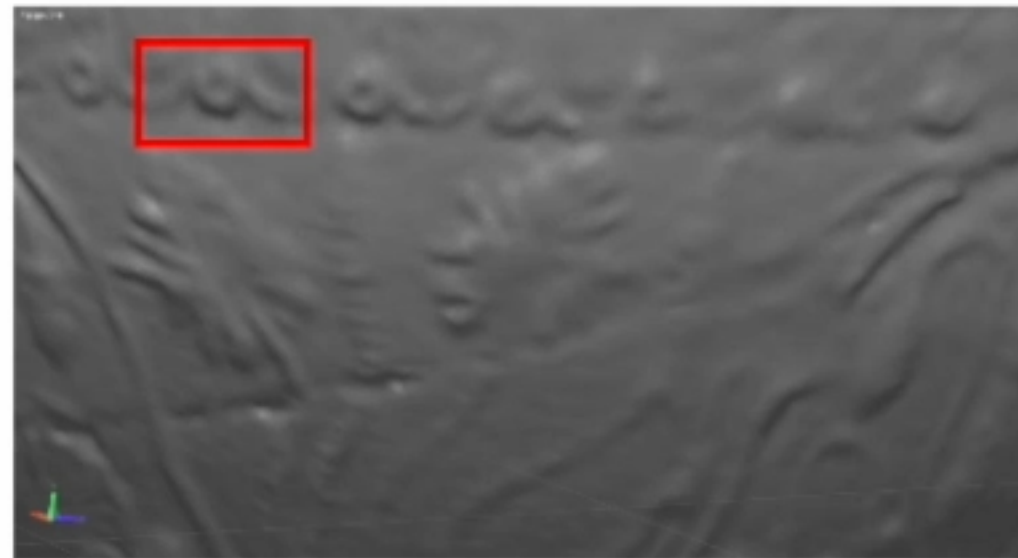
# FUSION DES VUES



FUSION DES VUES EN UN VOLUME UNIQUE

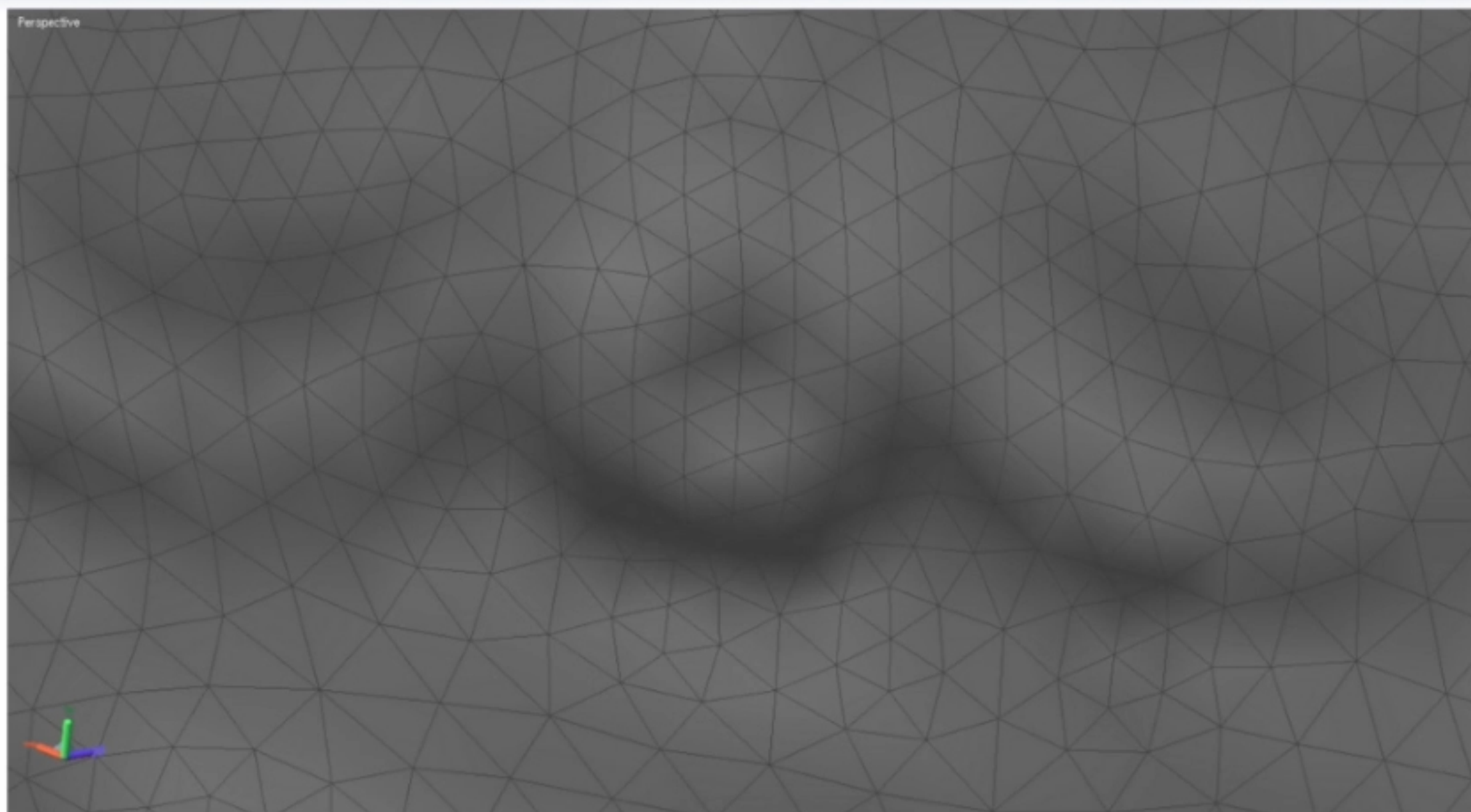


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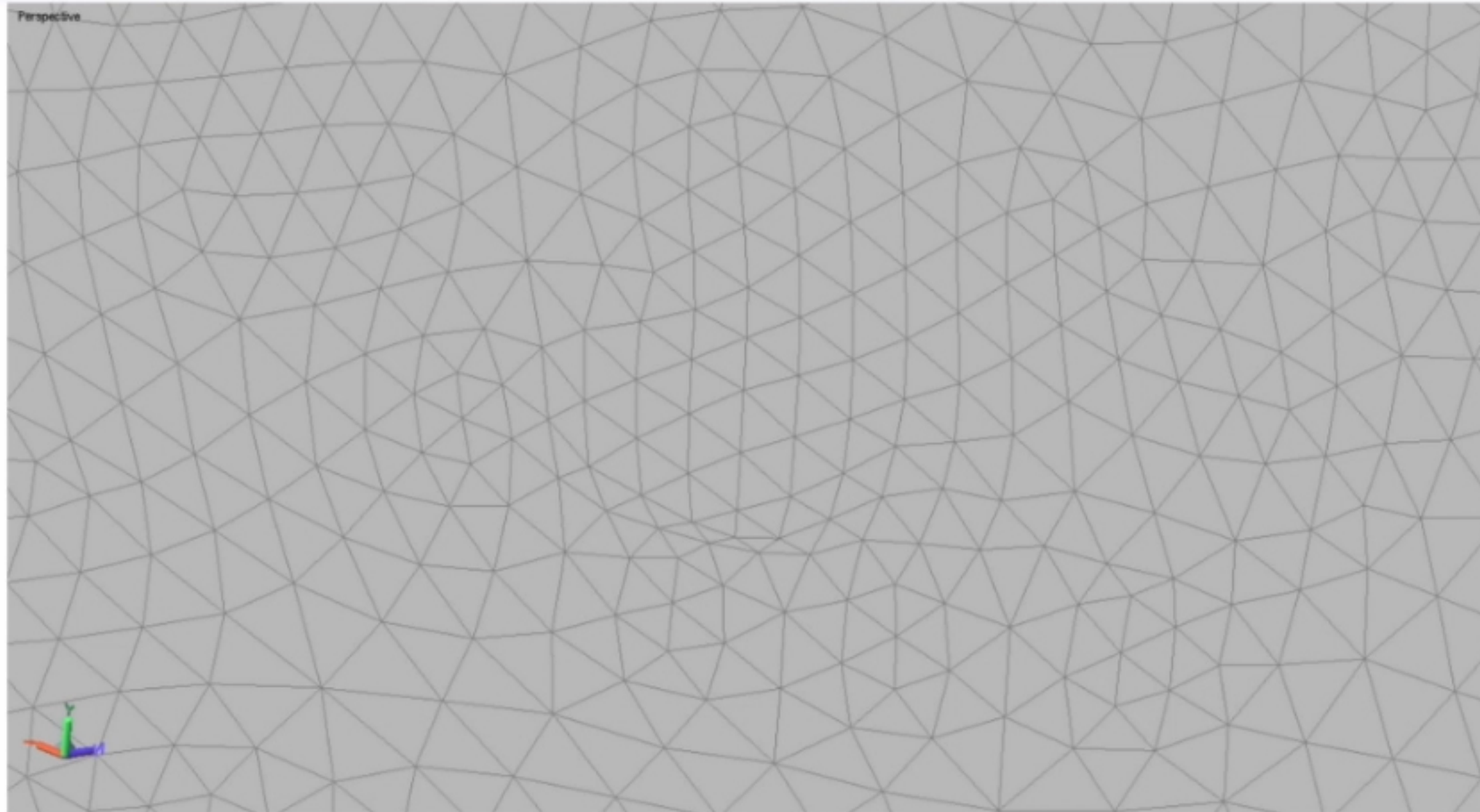
FUSION DES VUES EN UN VOLUME UNIQUE

# FUSION DES VUES



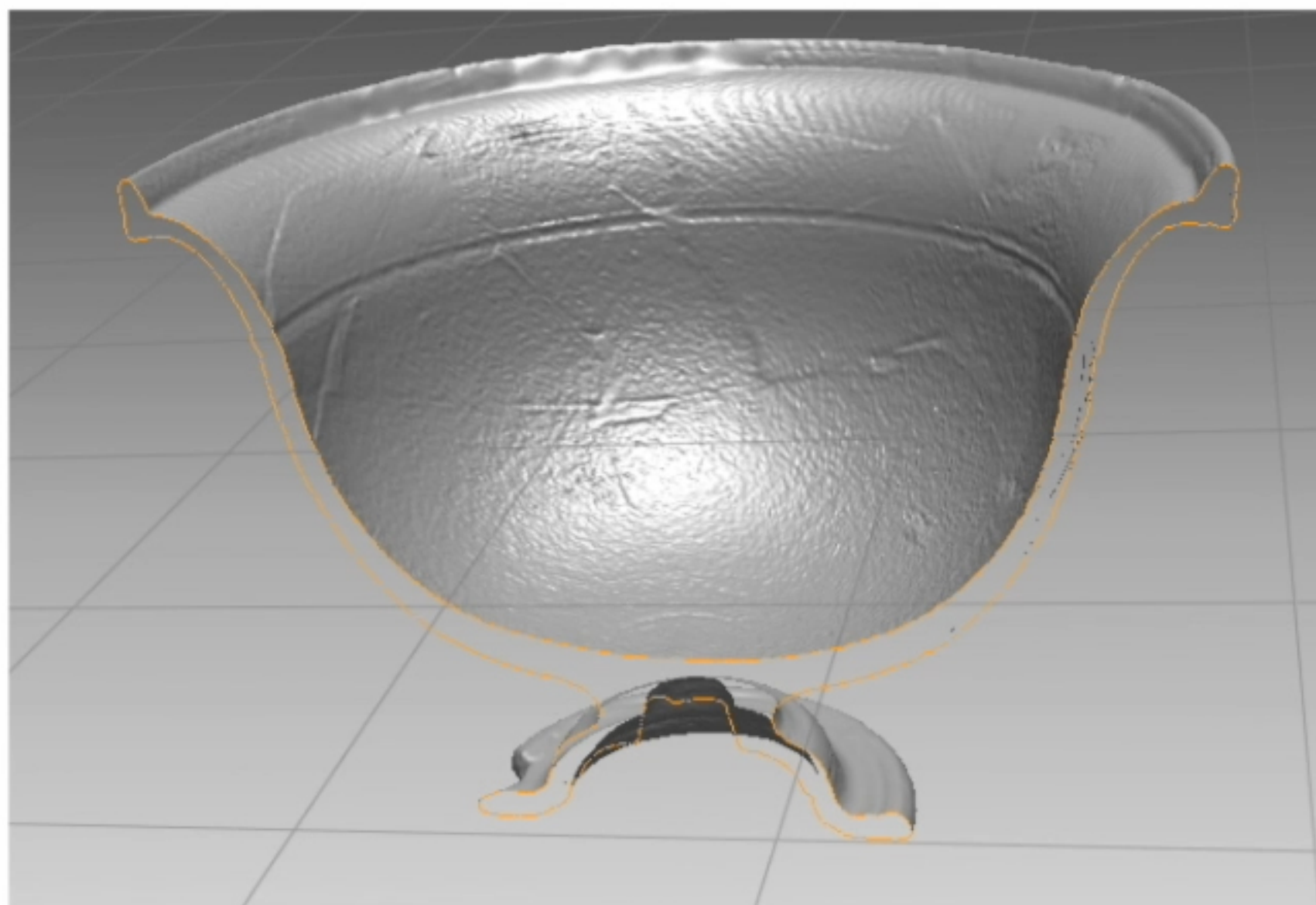
FUSION DES VUES EN UN VOLUME UNIQUE

# FUSION DES VUES



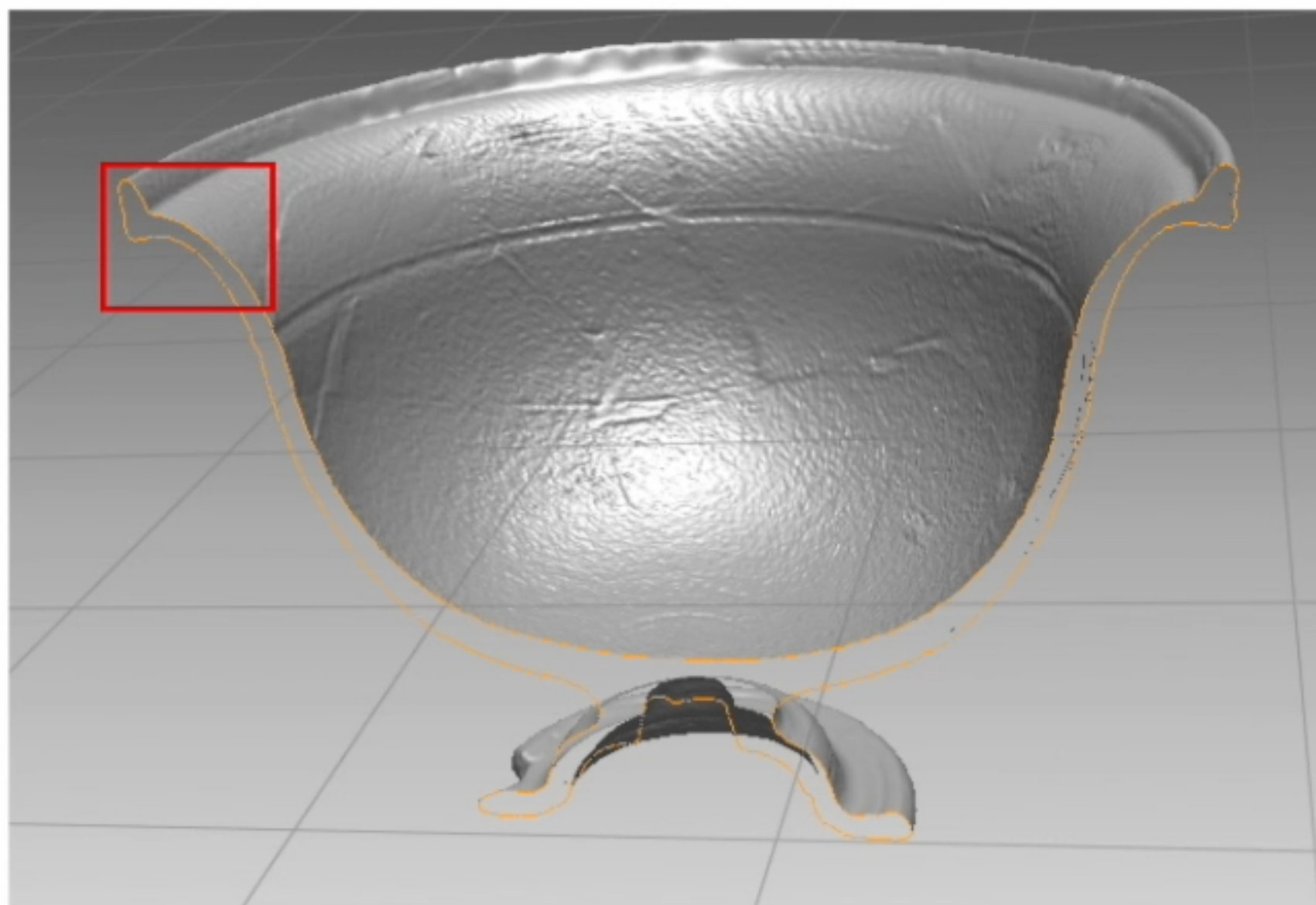
FUSION DES VUES EN UN VOLUME UNIQUE

# MESURES



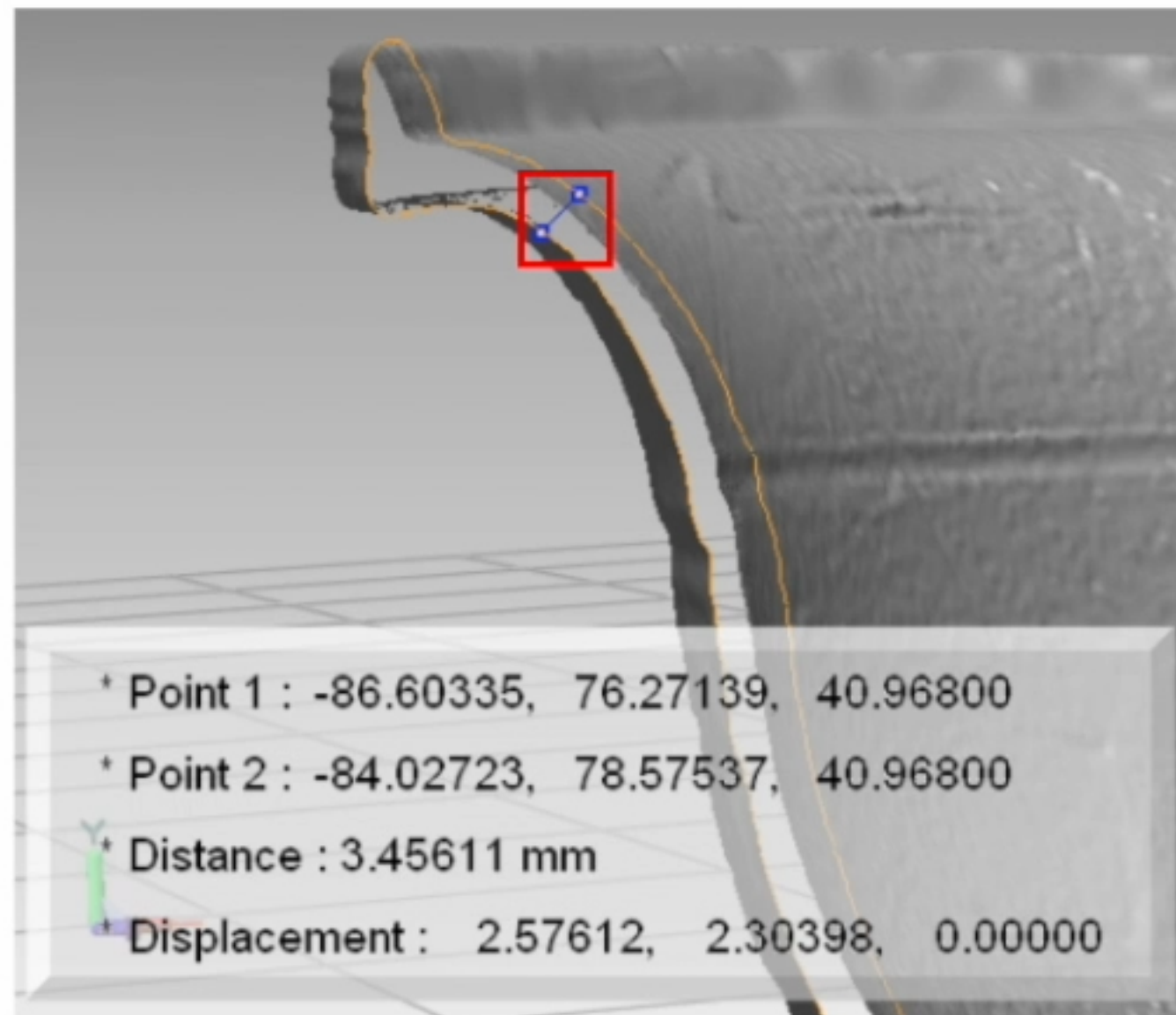
SECTION VIRTUELLE

# MESURES



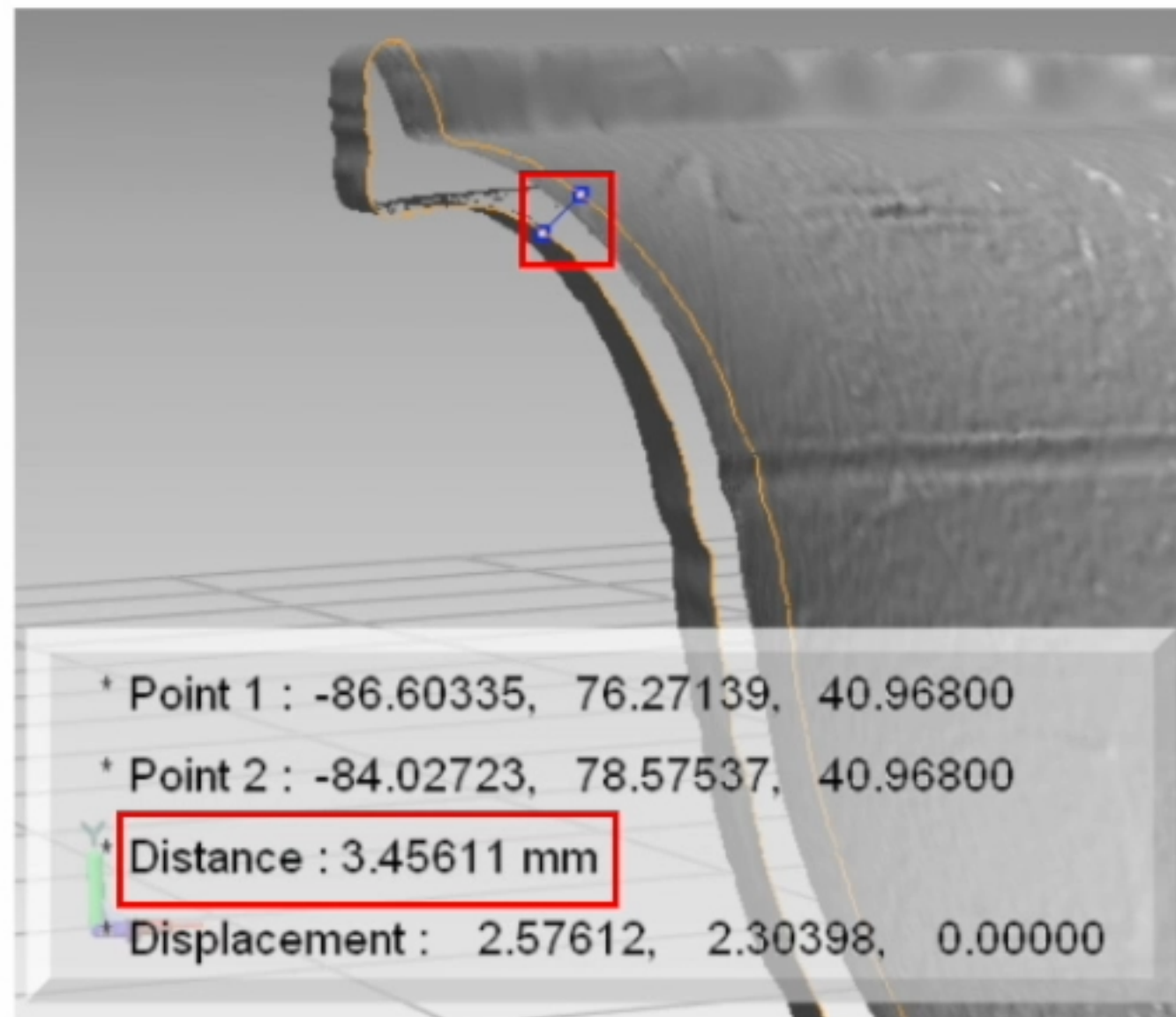
SECTION VIRTUELLE

# MESURES



MESURE SUR SECTION VIRTUELLE

# MESURES



MESURE SUR SECTION VIRTUELLE

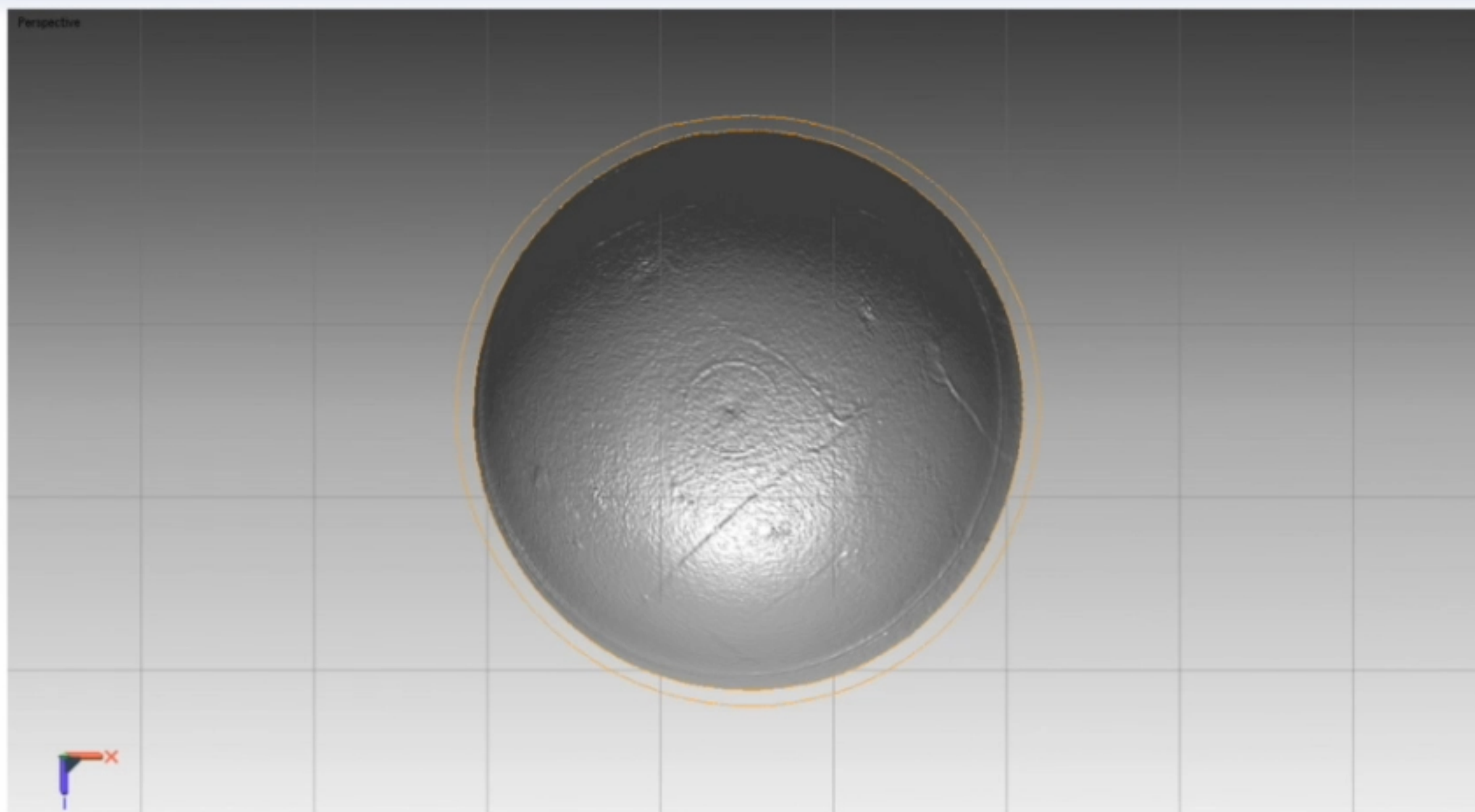
# SECTIONS AXIALES



SECTIONS AXIALES SUR PLUSIEURS PLANS

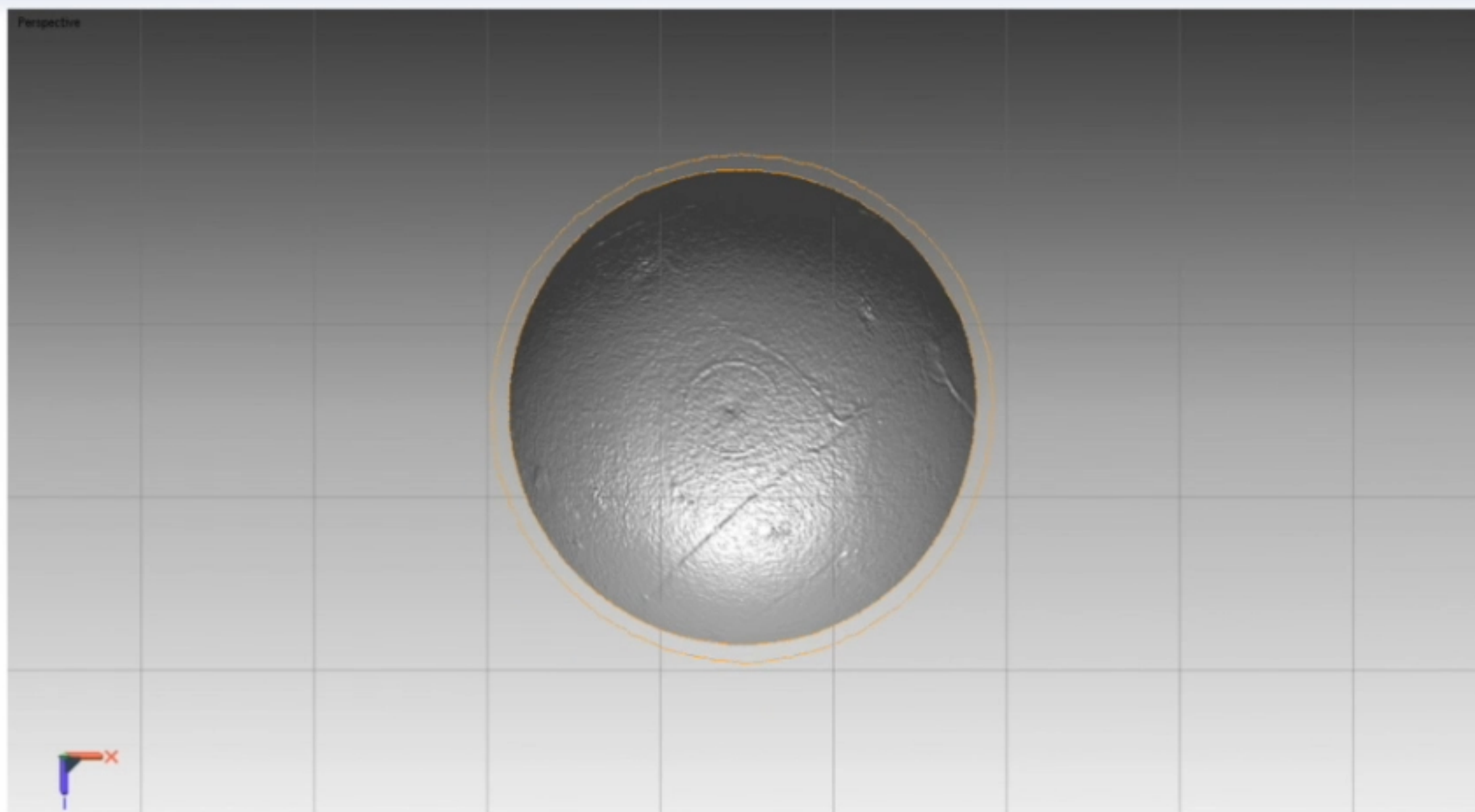


# SECTIONS AXIALES



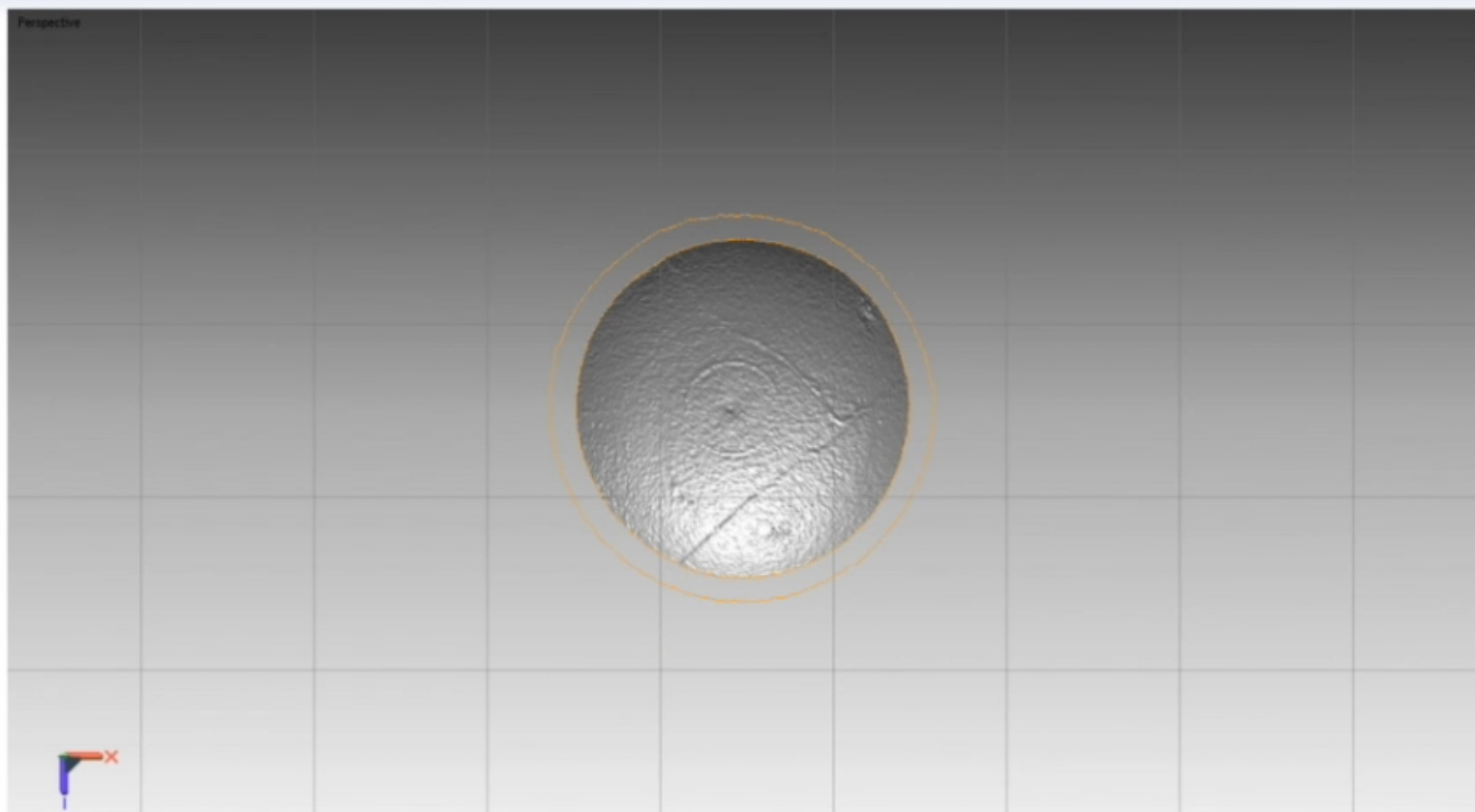
SECTIONS AXIALES SUR PLUSIEURS PLANS

# SECTIONS AXIALES



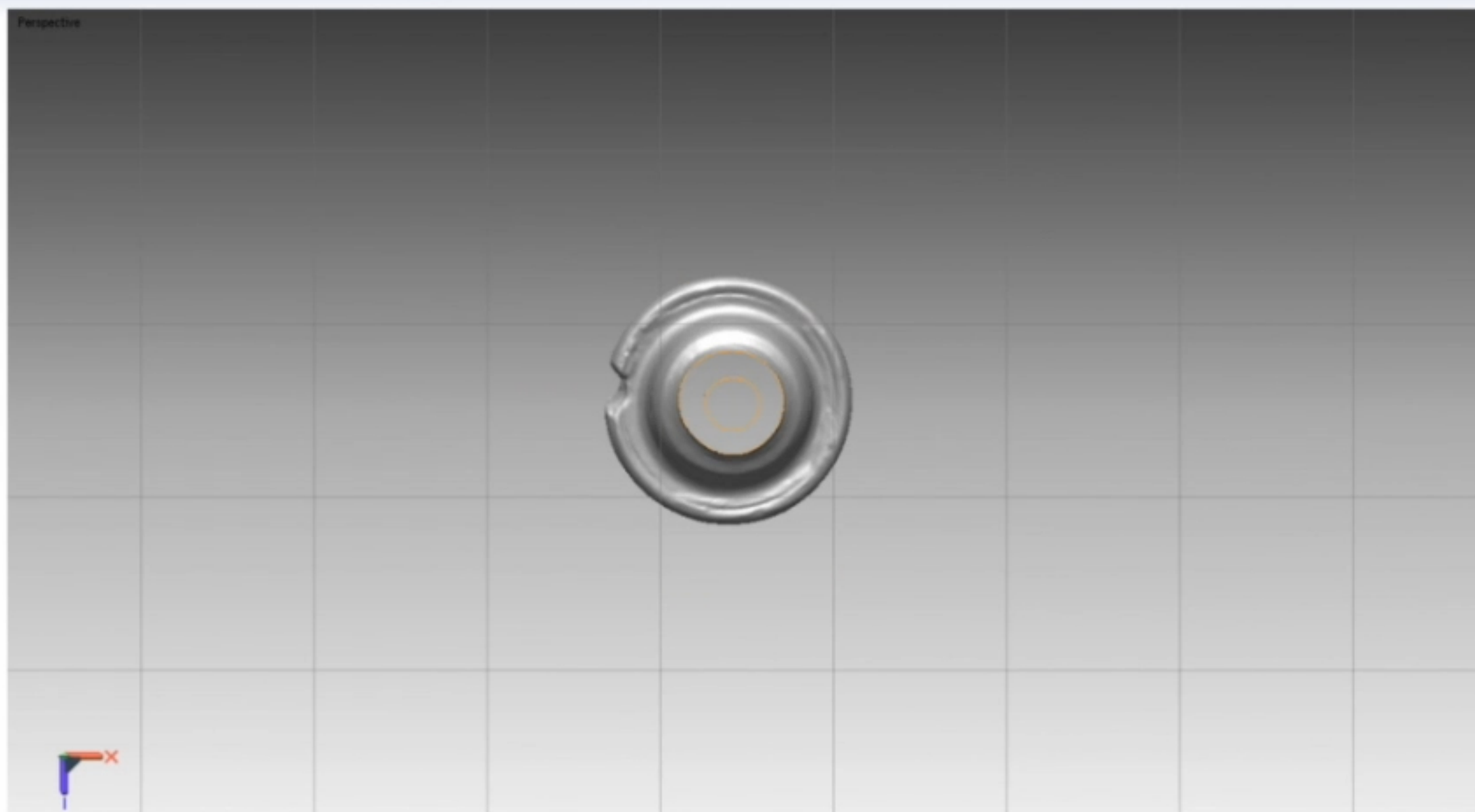
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# SECTIONS AXIALES



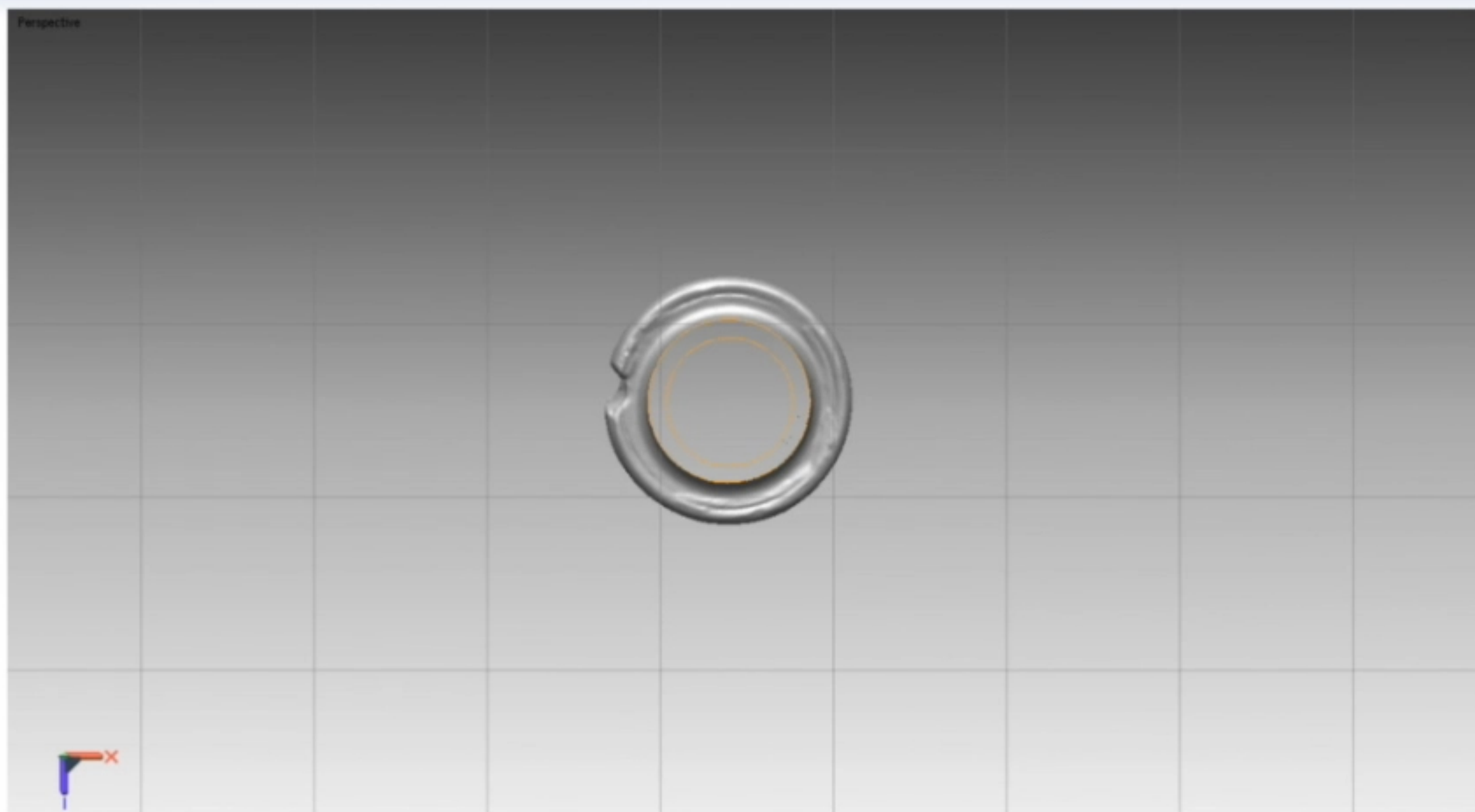
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# SECTIONS AXIALES



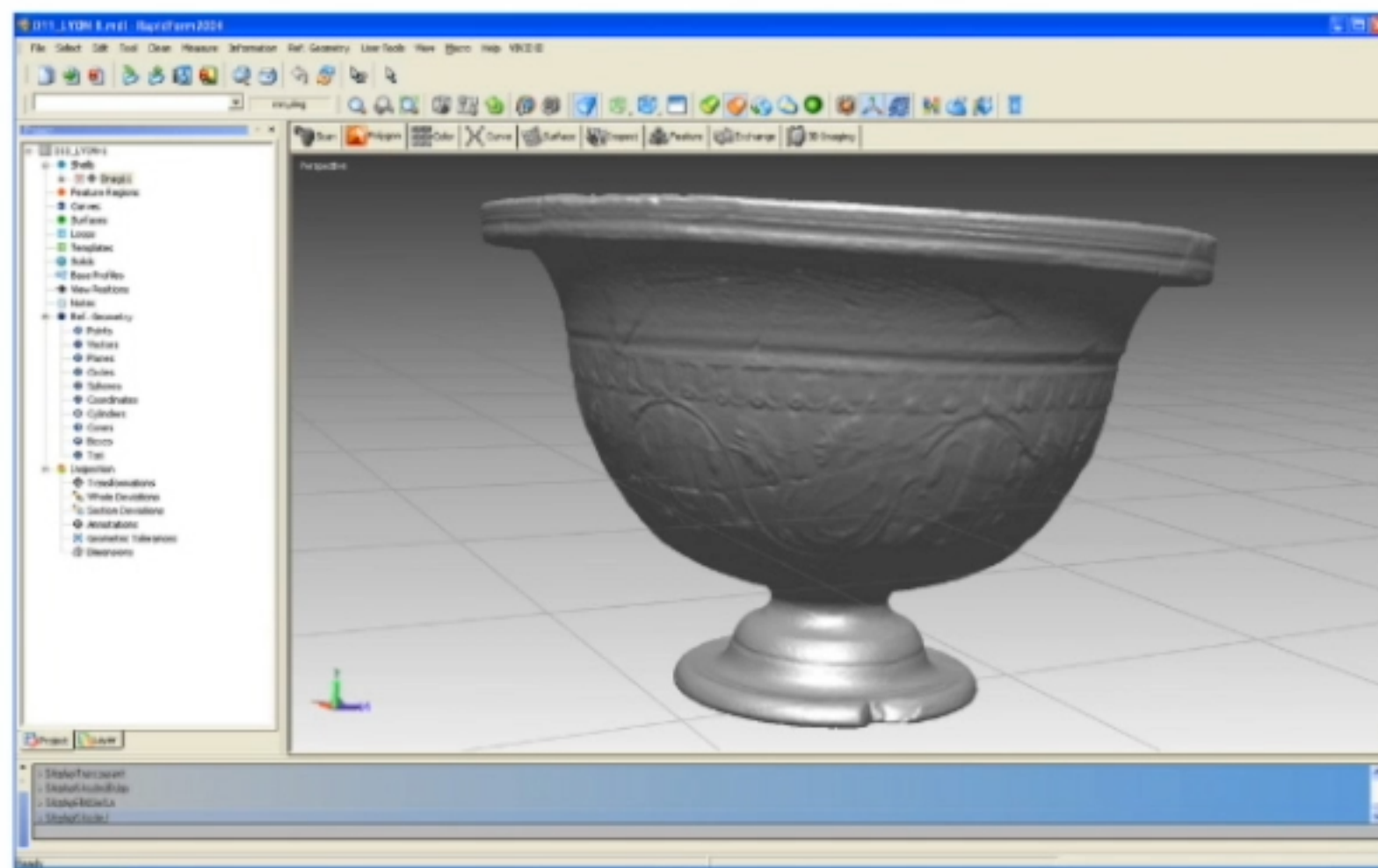
SECTIONS AXIALES SUR PLUSIEURS PLANS

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SECTIONS AXIALES SUR PLUSIEURS PLANS

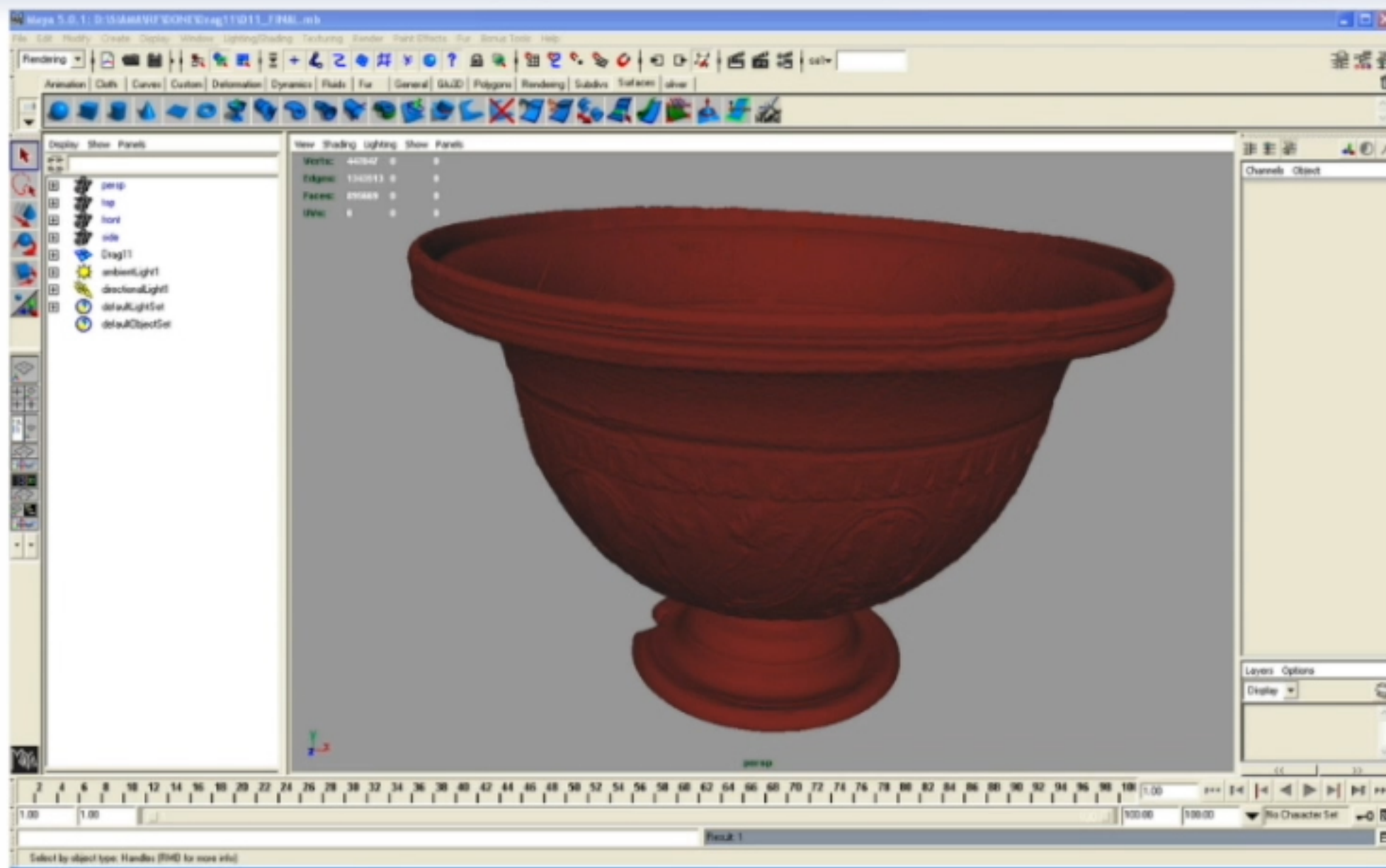
# CARACTERISTIQUES DU MODELE FINAL



D11  
Shells  
Drag1  
447847 Points  
895669 Facettes

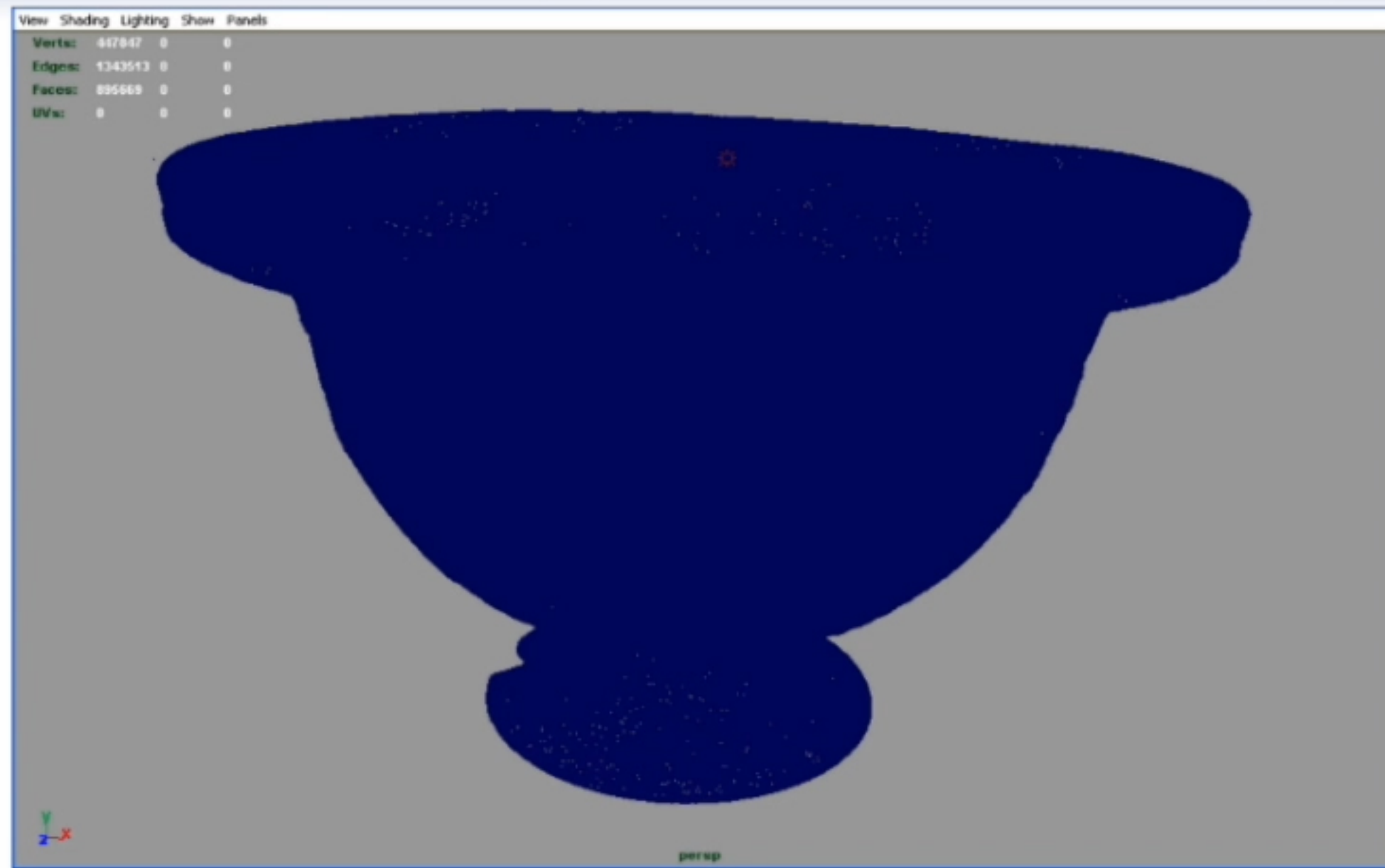
## CARACTERISTIQUES DU MAILLAGE

# IMPORT POUR PLACEMENT SOUS MAYA



IMPORT POUR PLACEMENT SPATIAL

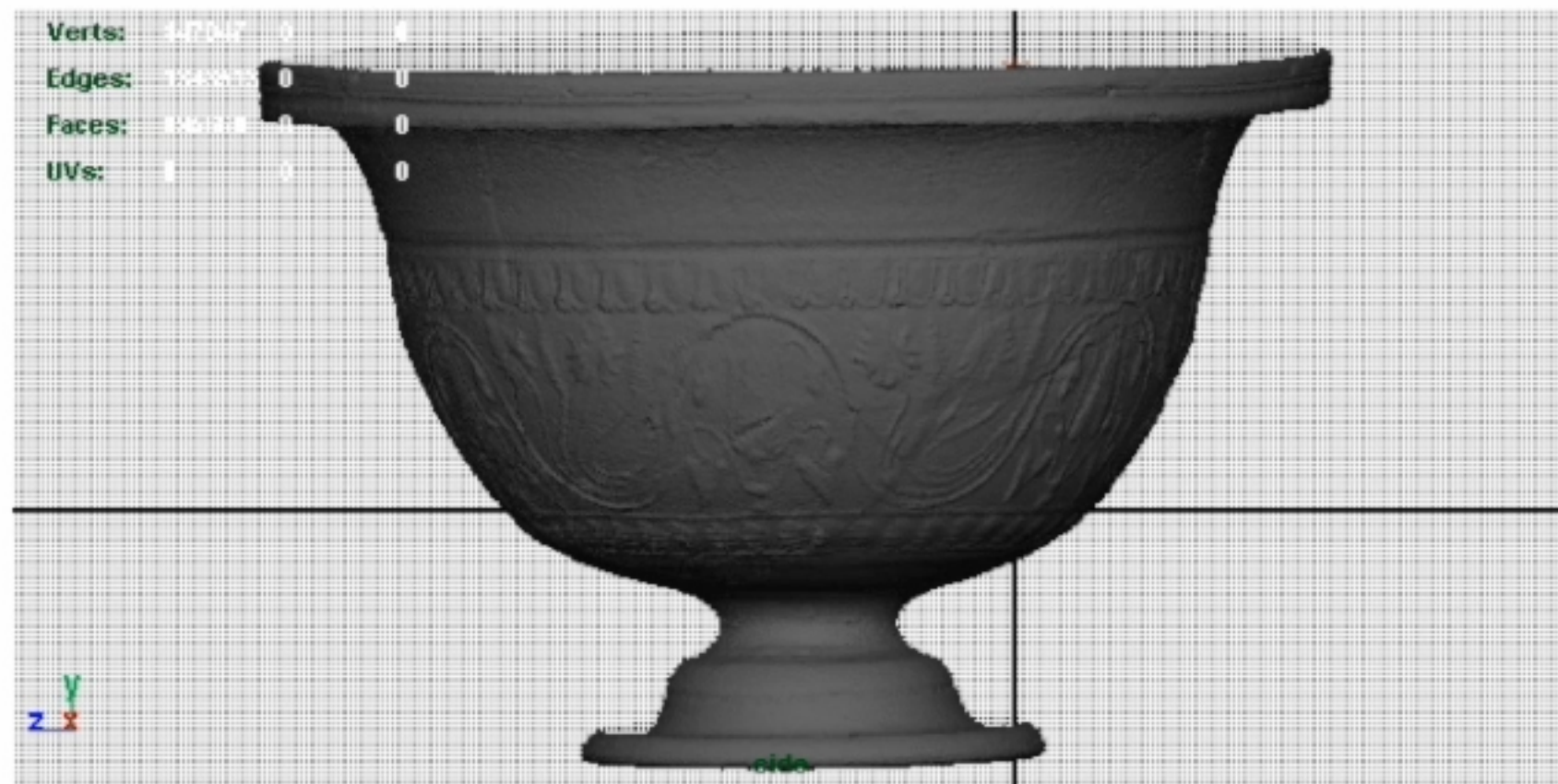
# IMPORT POUR PLACEMENT SOUS MAYA



IMPORT POUR PLACEMENT SPATIAL

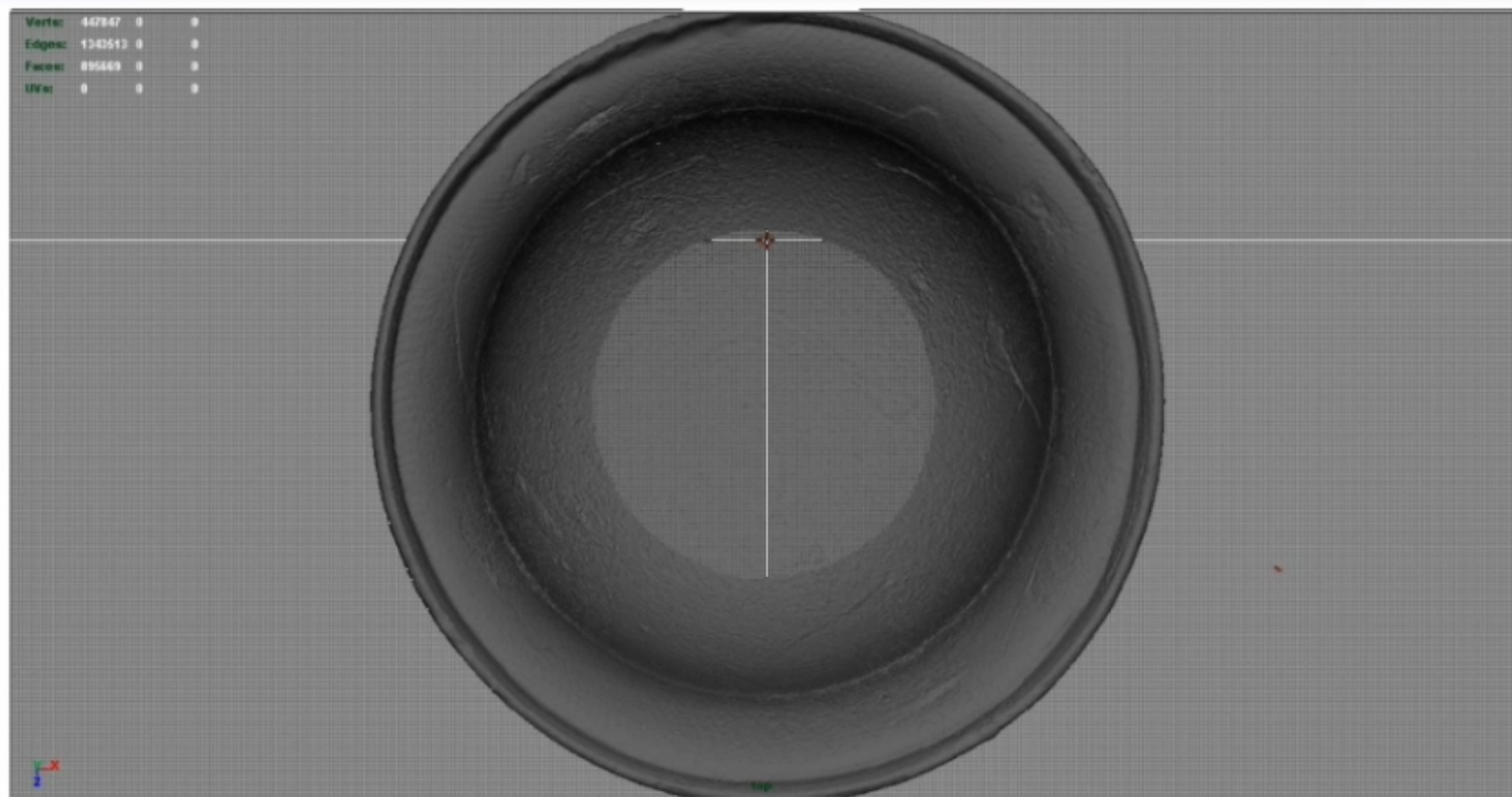


# POSITION DANS LE PLAN



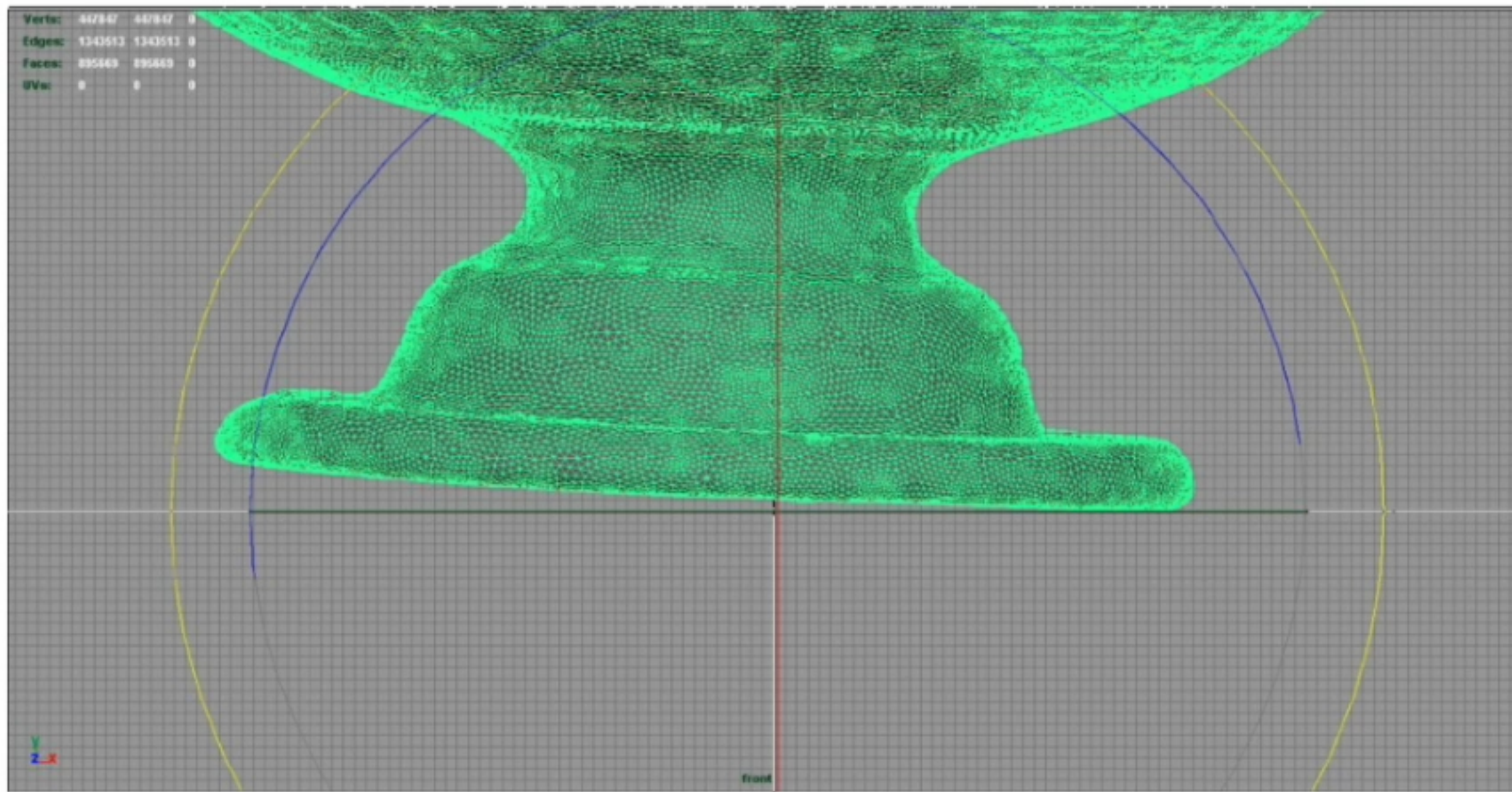
CORRECTION DE LA POSITION DANS LE PLAN

# CENTRAGE DU VOLUME



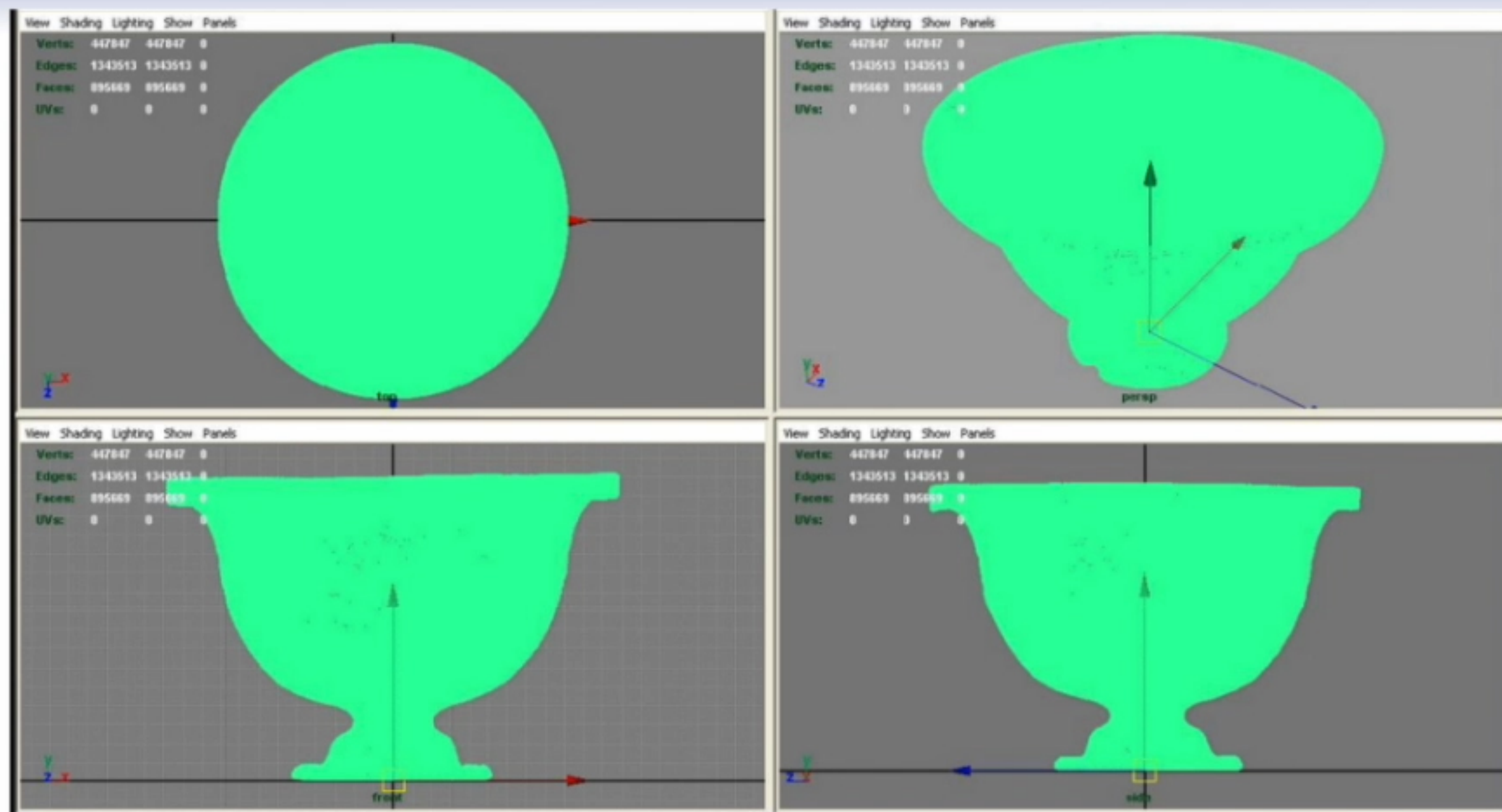
CORRECTION DE L'EXCENTRATION

# ASSIETTE



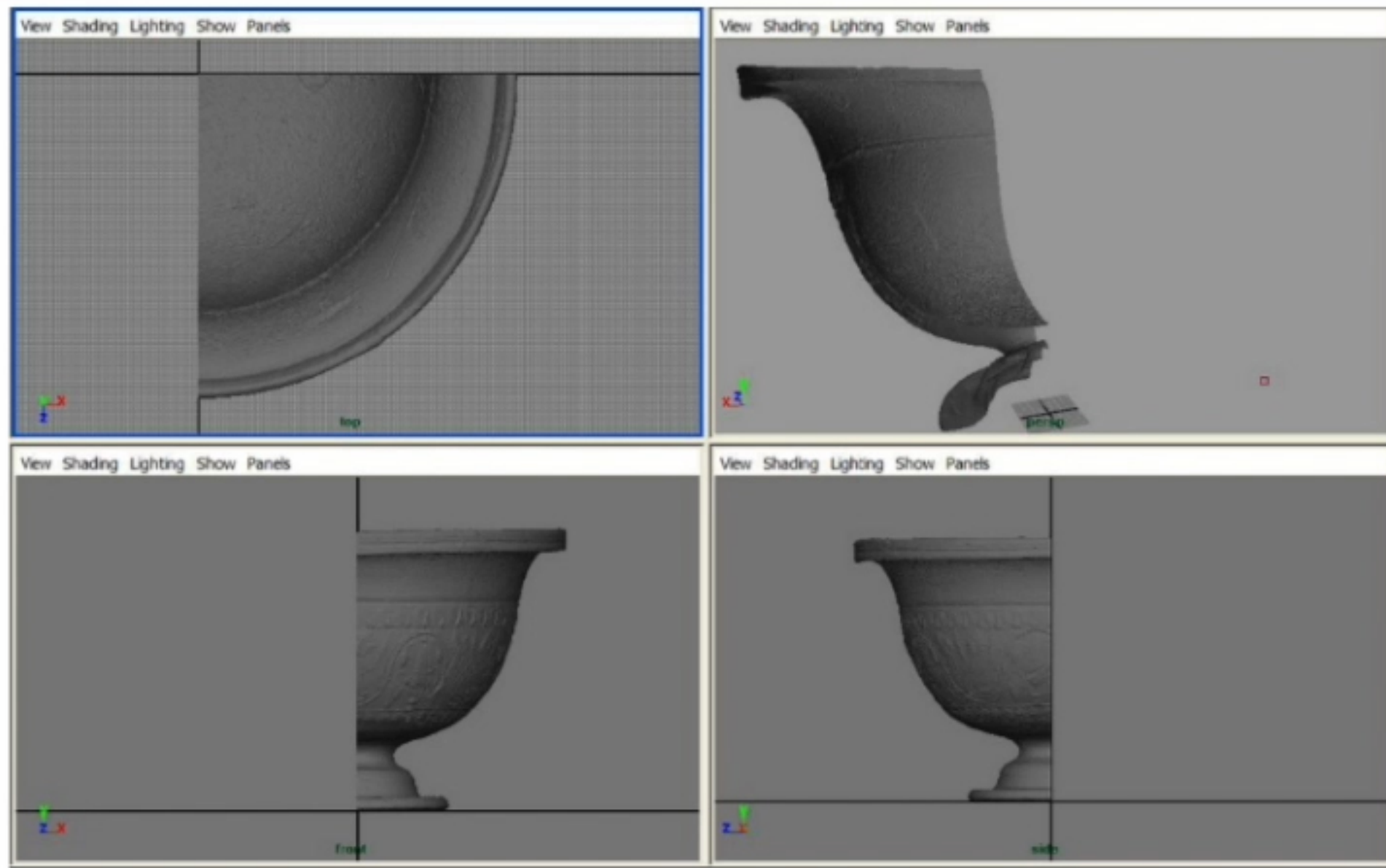
## CORRECTION DE L'ASSIETTE

# REPOSITIONNEMENT DANS L'ESPACE



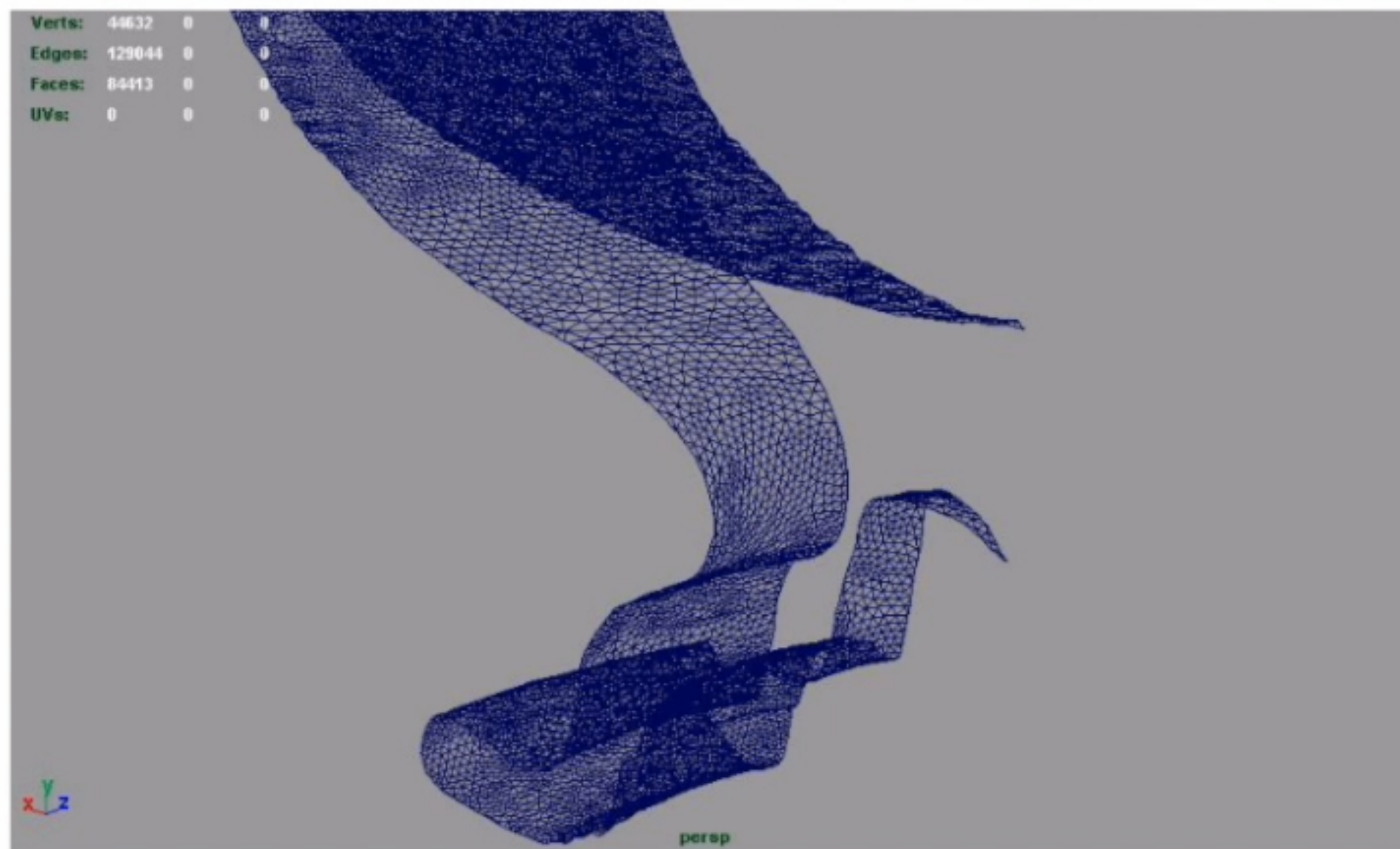
REPOSITIONNEMENT FINAL DANS REPERE ORTHONORME

# DECOUPE



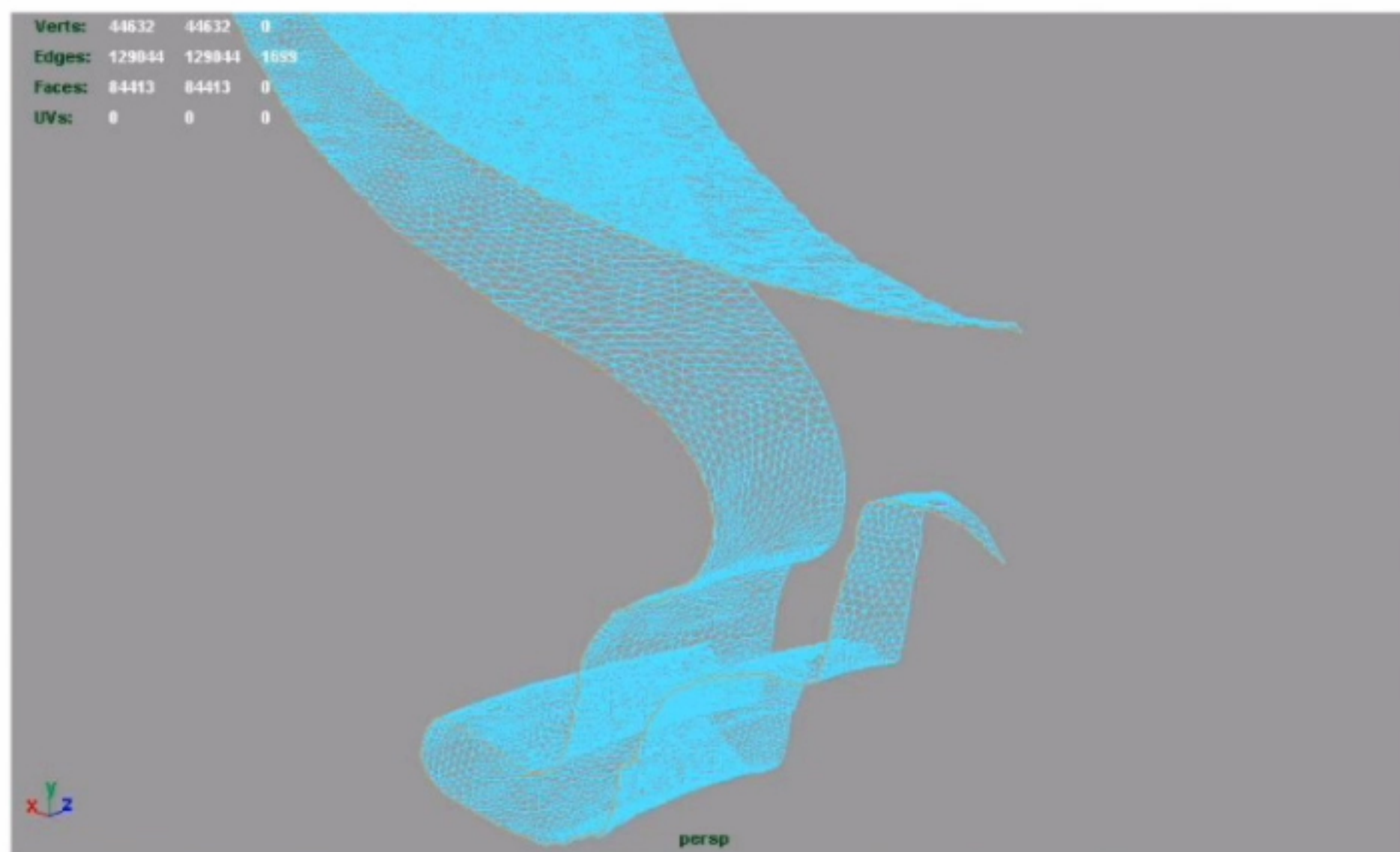
ISOLEMENT SECTEUR CIRCULAIRE 270°-360°

# MAILLAGE



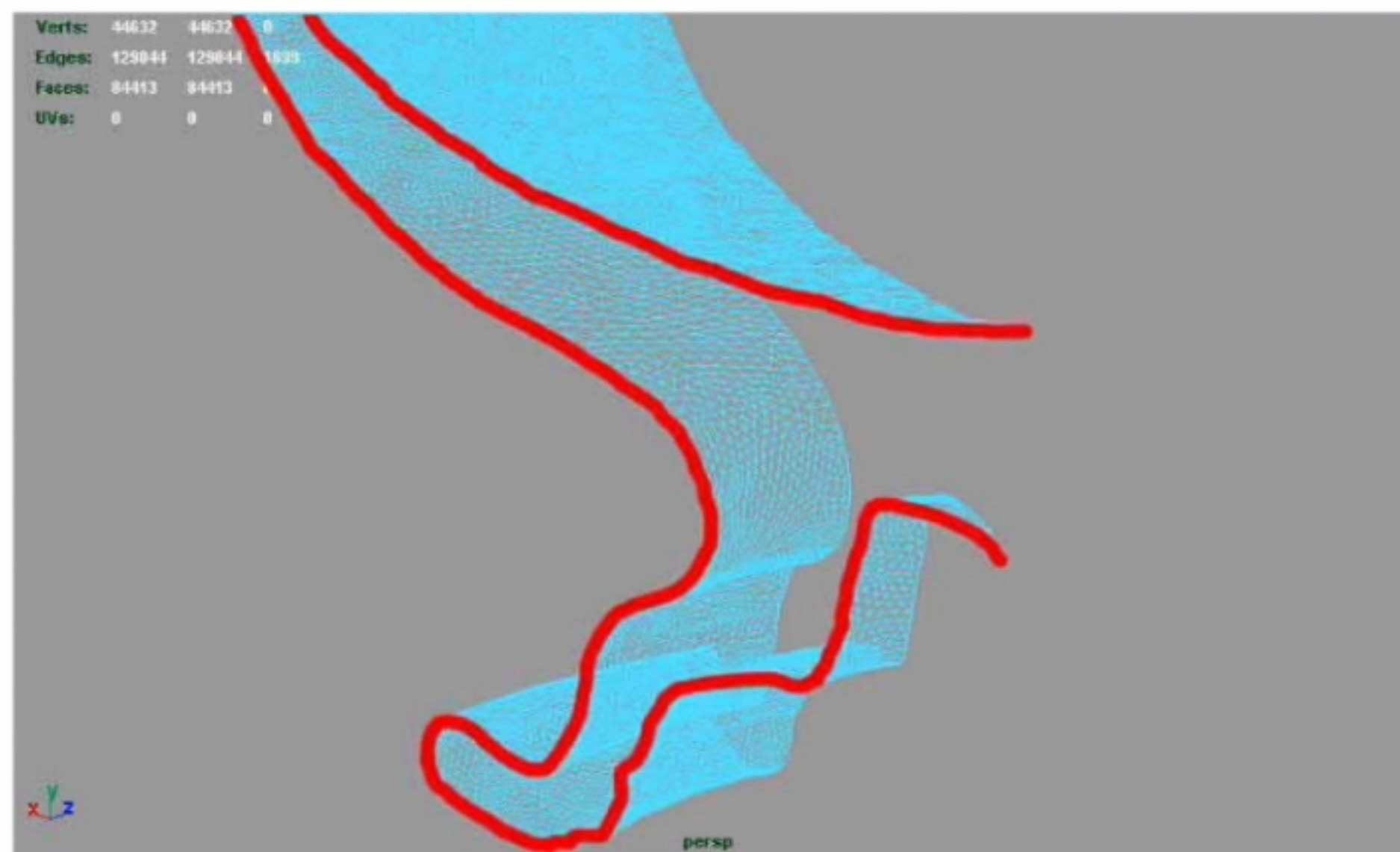
VISUALISATION DU MAILLAGE

# IDENTIFICATION DES SEGMENTS



IDENTIFICATION DES SEGMENTS CONTIGUS DU PLAN DE SECTION

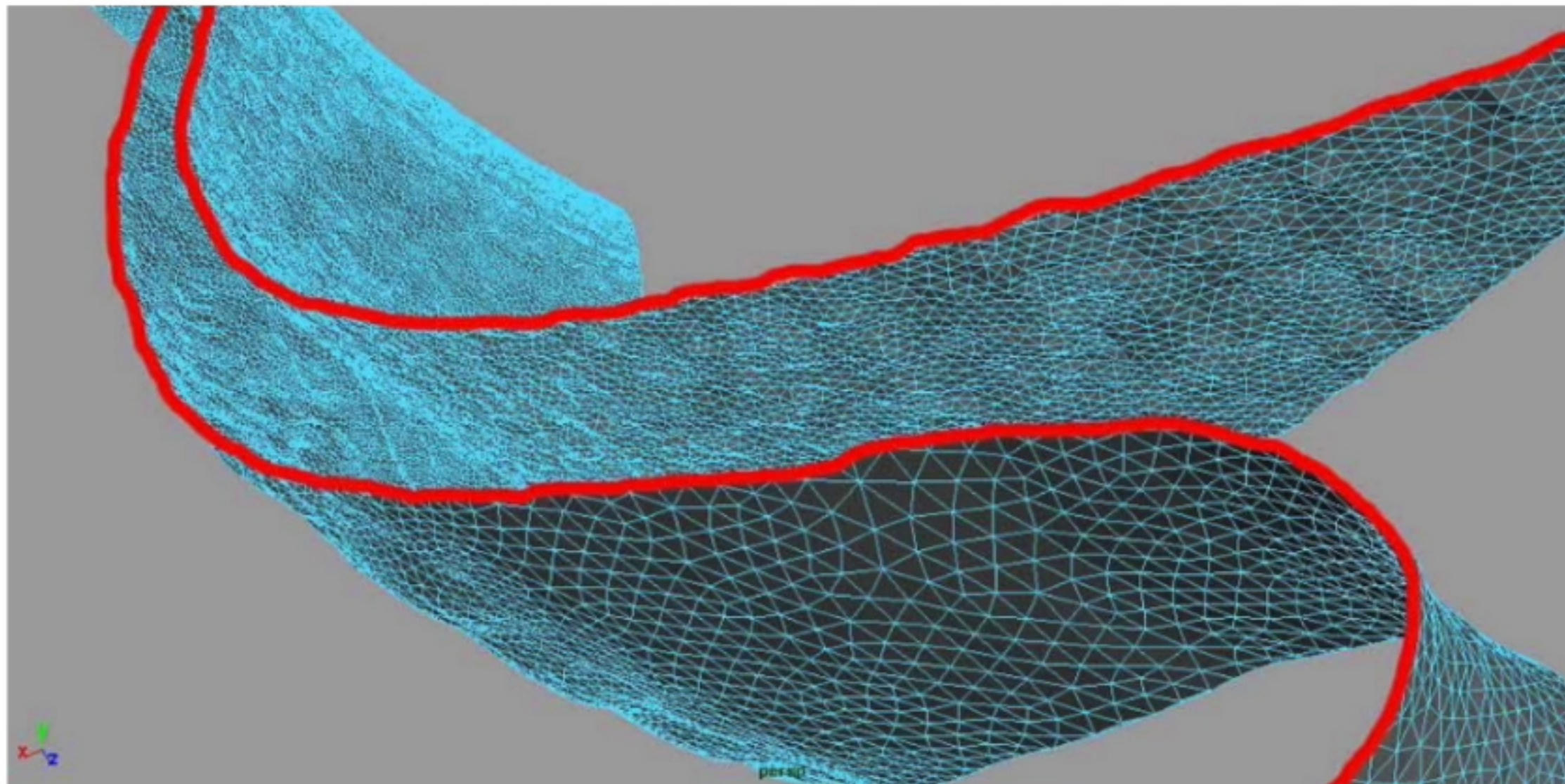
# IDENTIFICATION DES SEGMENTS



IDENTIFICATION DES SEGMENTS CONTIGUS DU PLAN DE SECTION

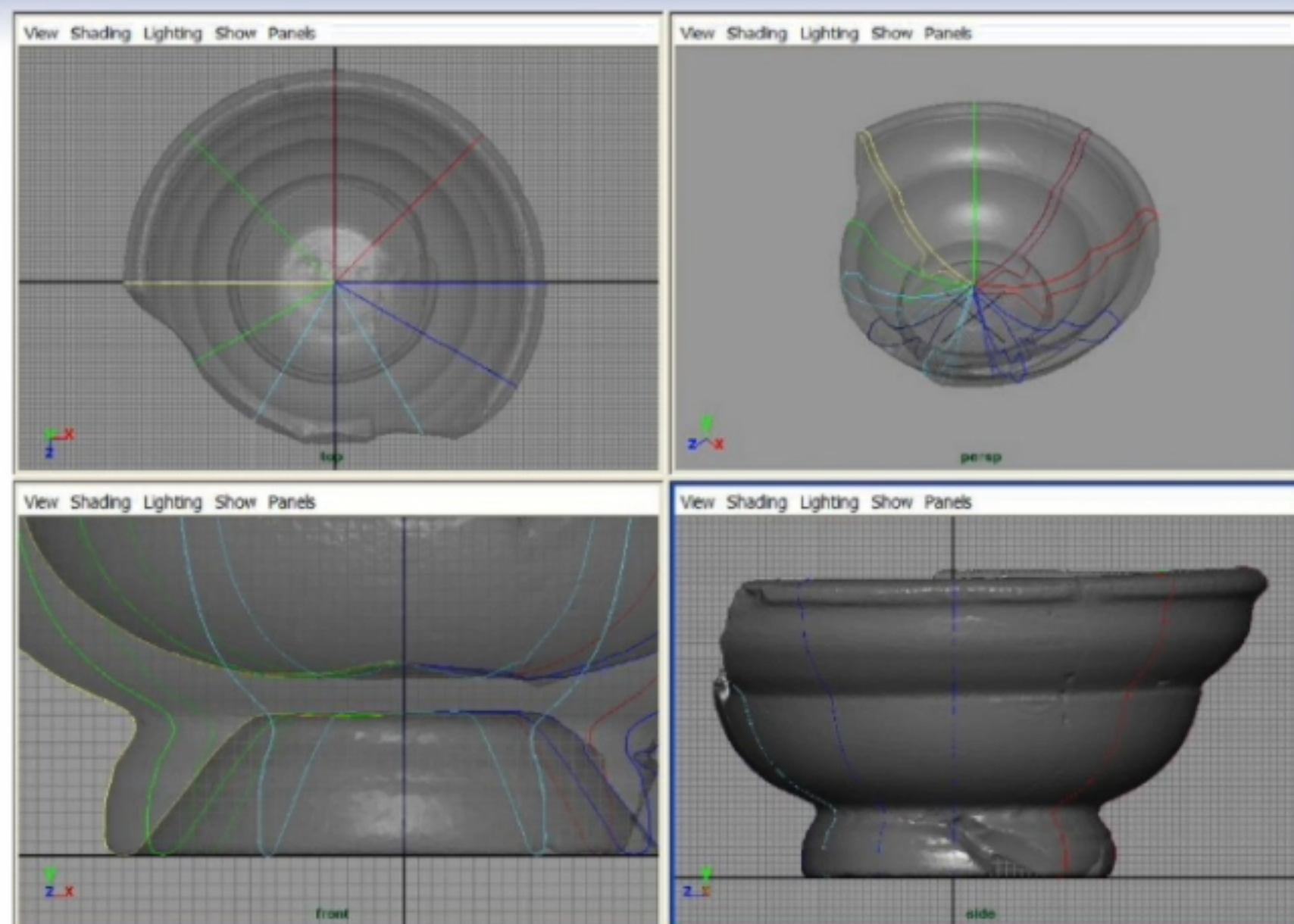


# SEGMENTS ET COURBE



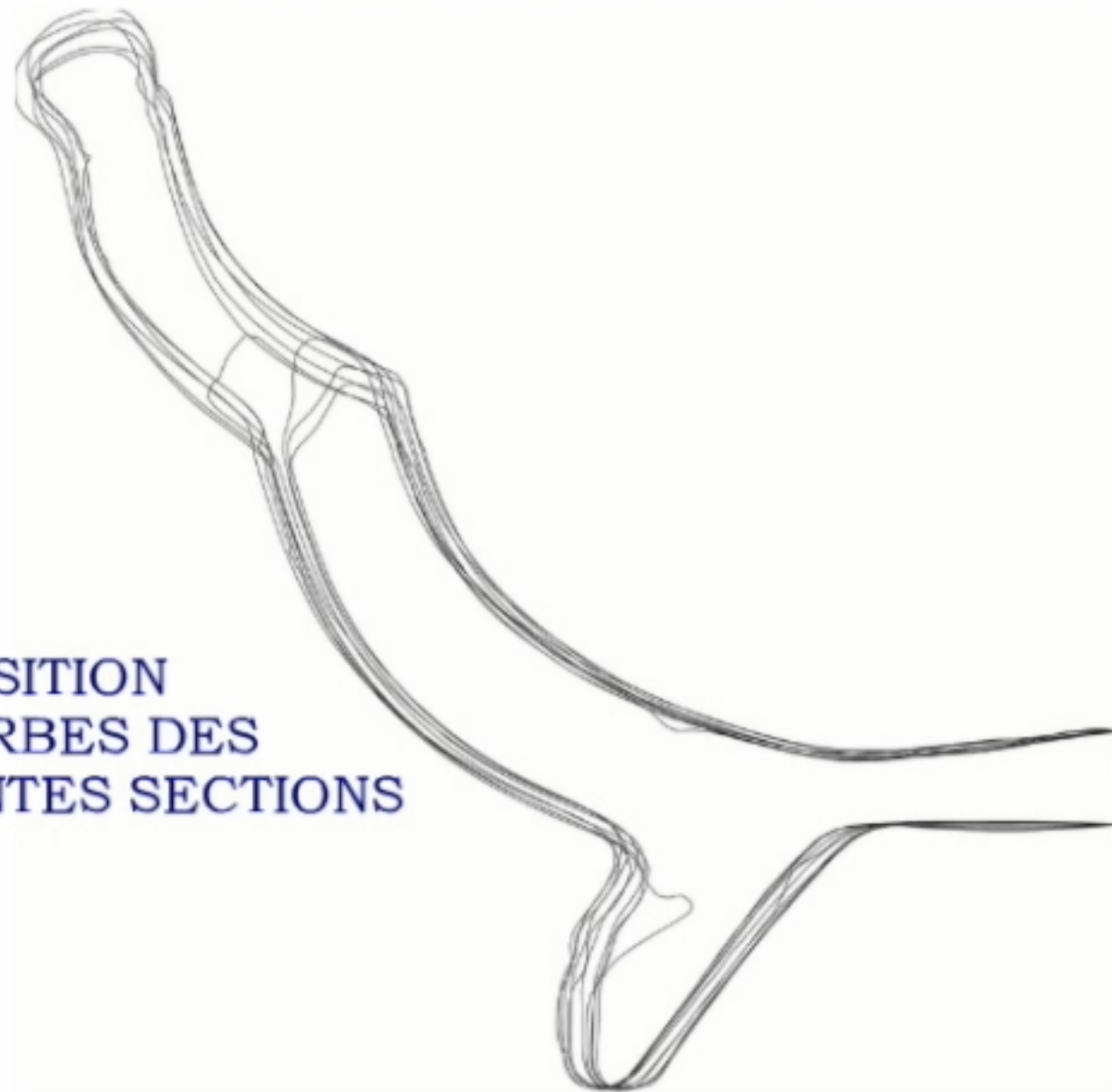
TRANSFORMATION DES SEGMENTS EN UNE SEULE COURBE

# PLANS DE SECTION



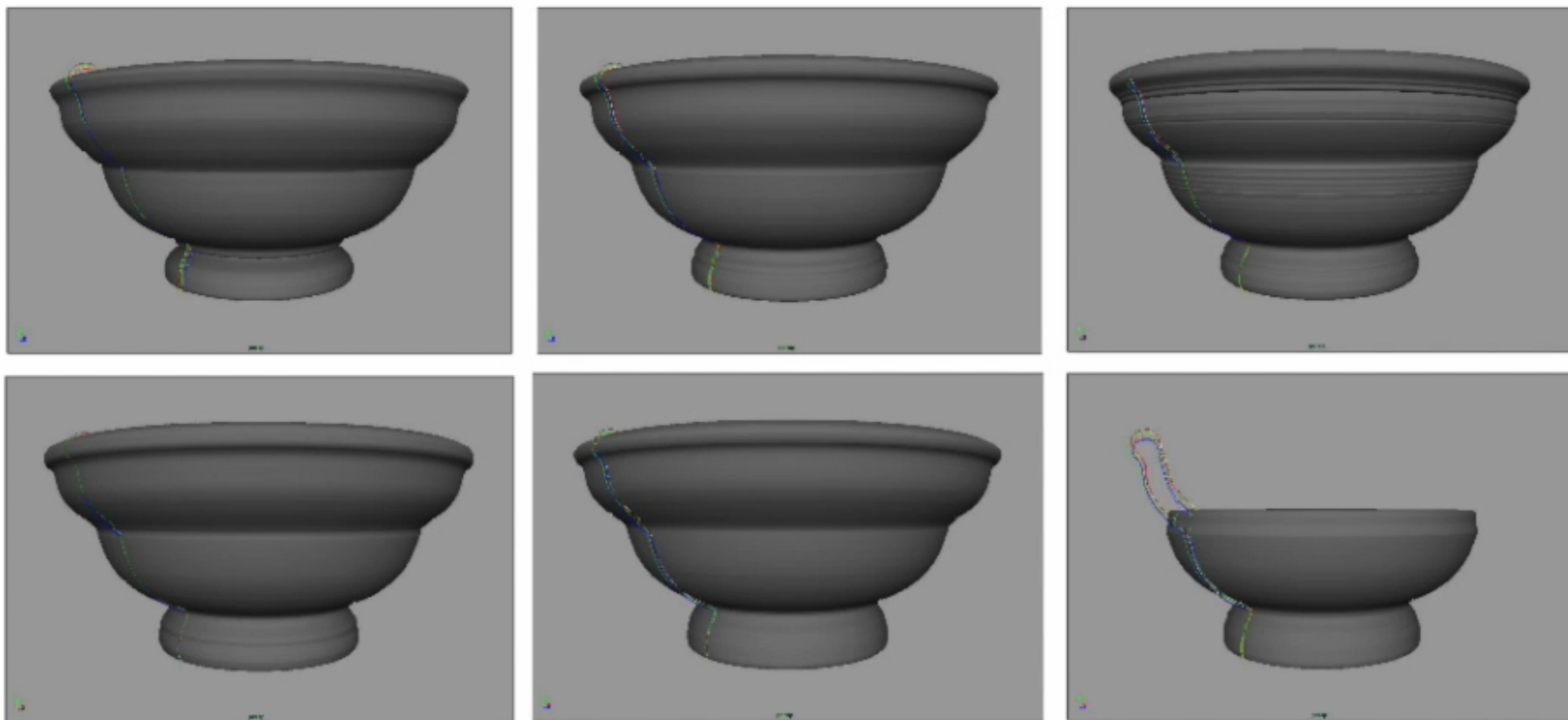
LOCALISATION DES PLANS DE SECTION

# PROFILS



SUPERPOSITION  
DES COURBES DES  
DIFFERENTES SECTIONS

# COURBES ET VOLUMES



VOLUMES DE REVOLUTION ISSUS DES COURBES