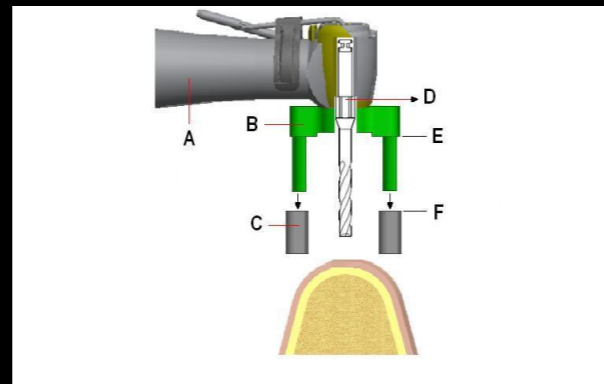


# Immediate Loading with GC



# Conical implants with 2INGIS guided Surgery



Dr Matthieu Reichardt (OIGNIES France)

Dental Lab Entuiteeth: Mathieu Lavenu (Lambrez Les  
Douai France)

Inventor Philippe De Moyer (Brussels Belgium)



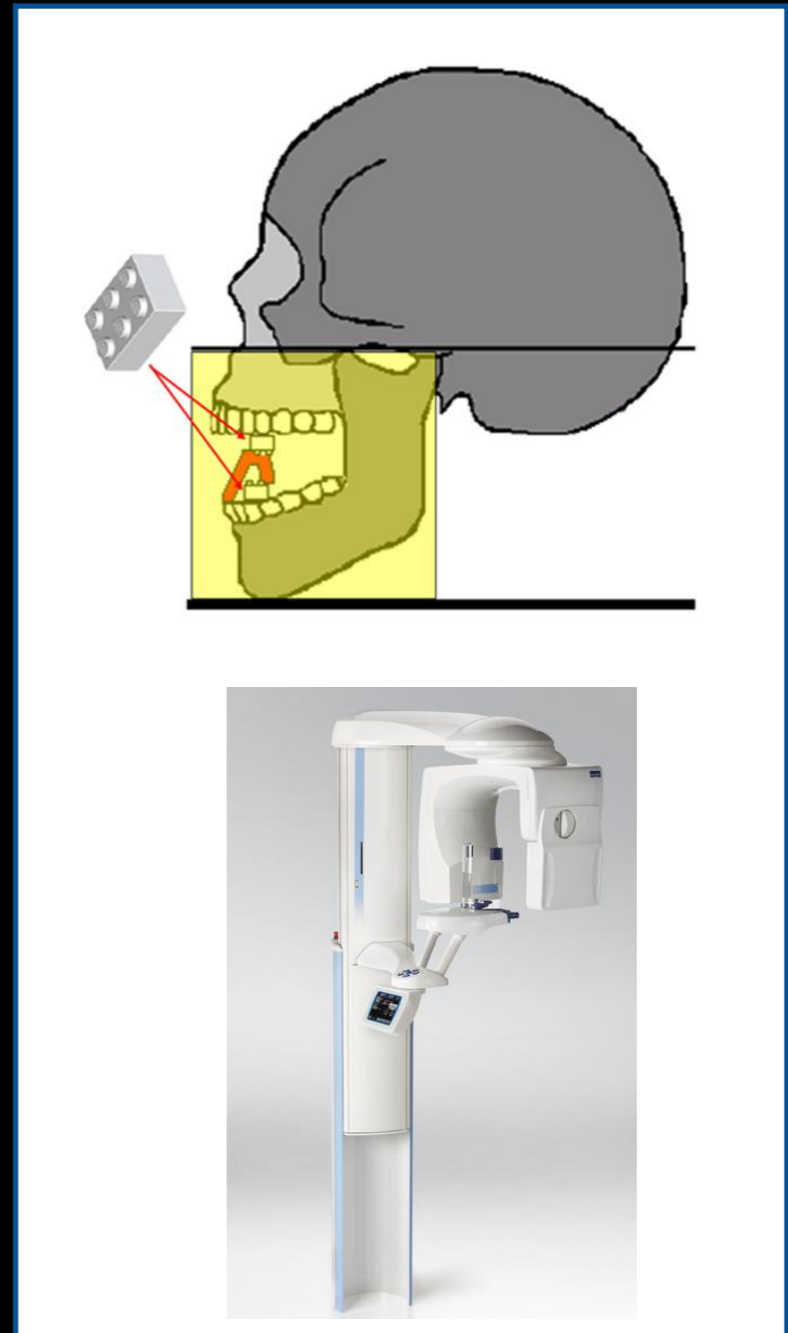
The dentist need to choose the right RX guide  
size  
and taken an silicone impression with.

The RX guides existing for lower or upper jaw and in 4 different sizes.



# Medical 3D scanning of: Patient with RX guide and LEGO Brick in his mouth

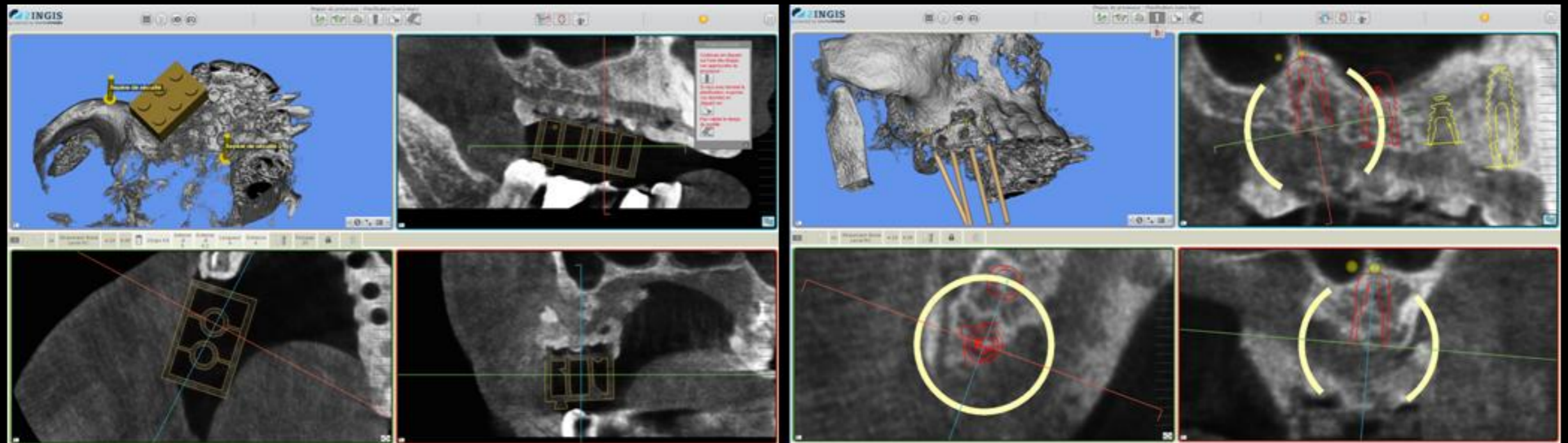
The RX guide with a big LEGO brick needs to be in the right position  
In the patients mouth during the CT aquisitions.  
No movement of the patient is allowed during this aquisition



# First CT Analyse to control the precision of the CT and the bone quantity in the planning program

Control of the precision thanks the precise fitting of the LEGO brick.

First positioning of the implaznts to see if there Is enough bone to place implants .



After this analyse the dental lab can make the set up that will tried with the patient to be validated.

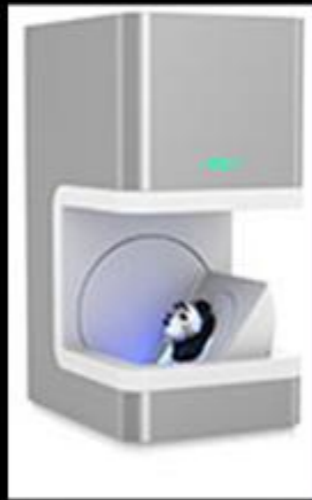
# Optical scanning of: References, Model and set up

After the validation of the set up the dental lab need to make 3 optical scans of the RX guide, the model and the set up.  
3 extra reference are added on the scan base. The 3 scans needed to be transformed in STL format.

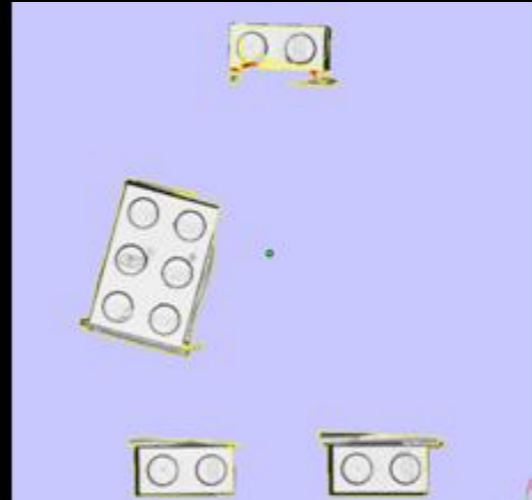
RX guide + 3 extra references



GC Scanner



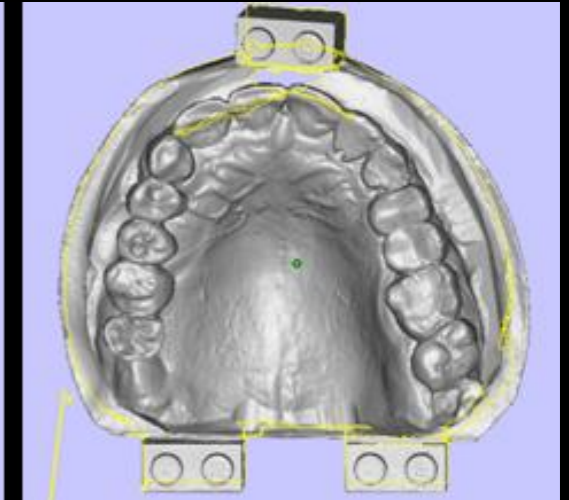
RX reference + 3 fitting references



Model + 3 fitting references



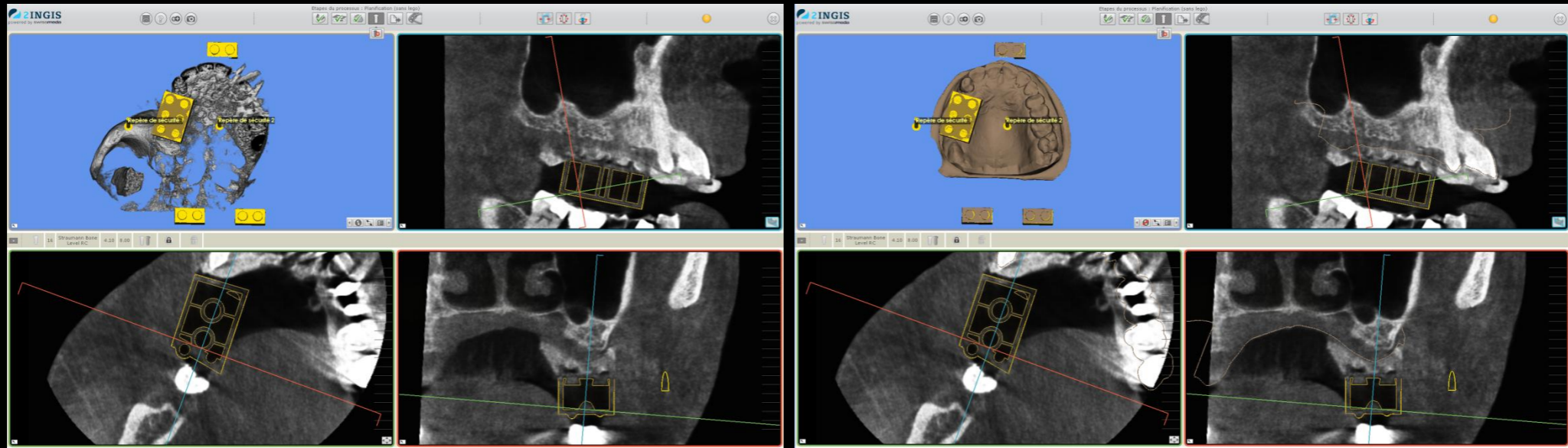
Set up + 3 fitting references



# Integration of STL files in the planning software and realizing of the implant planning.

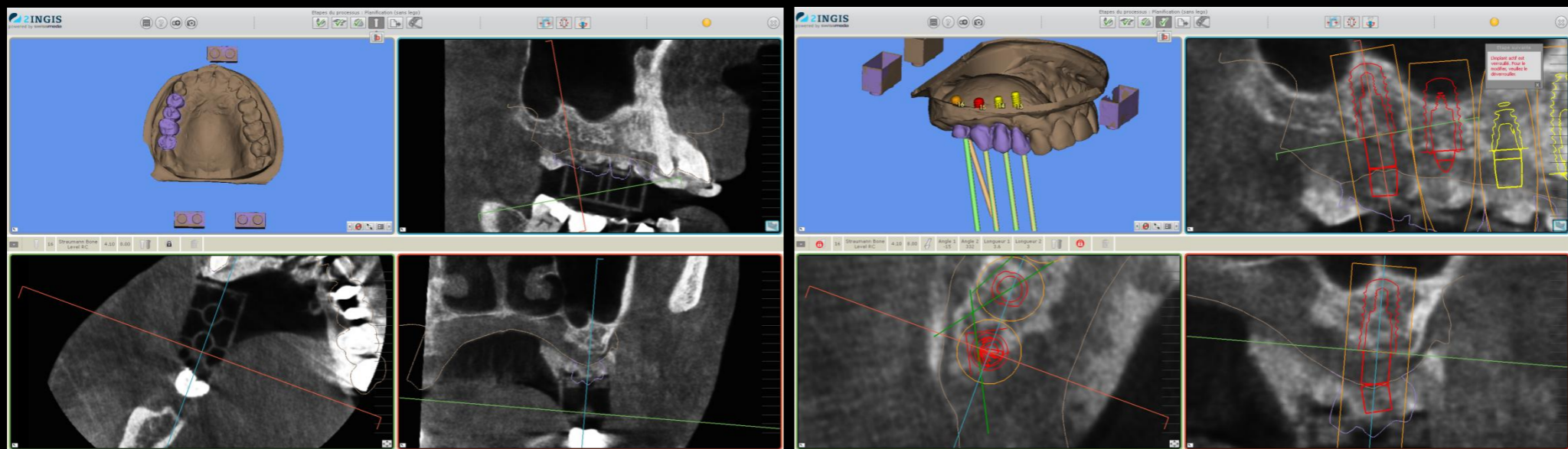
Integration of the references (LEGO) STL

Integration Model STL



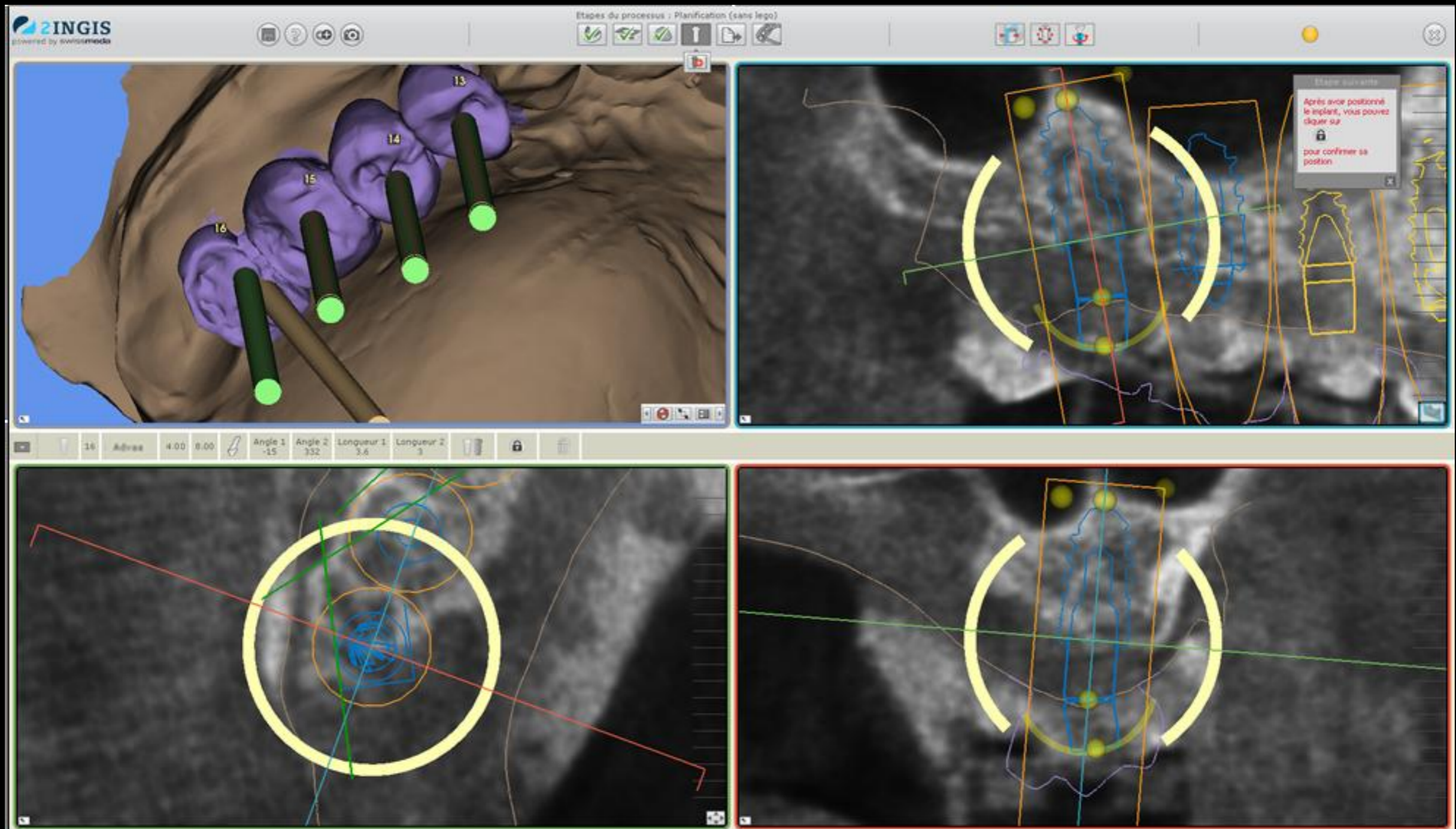
Integration of the set up STL

Starting of the implant planning with the set up



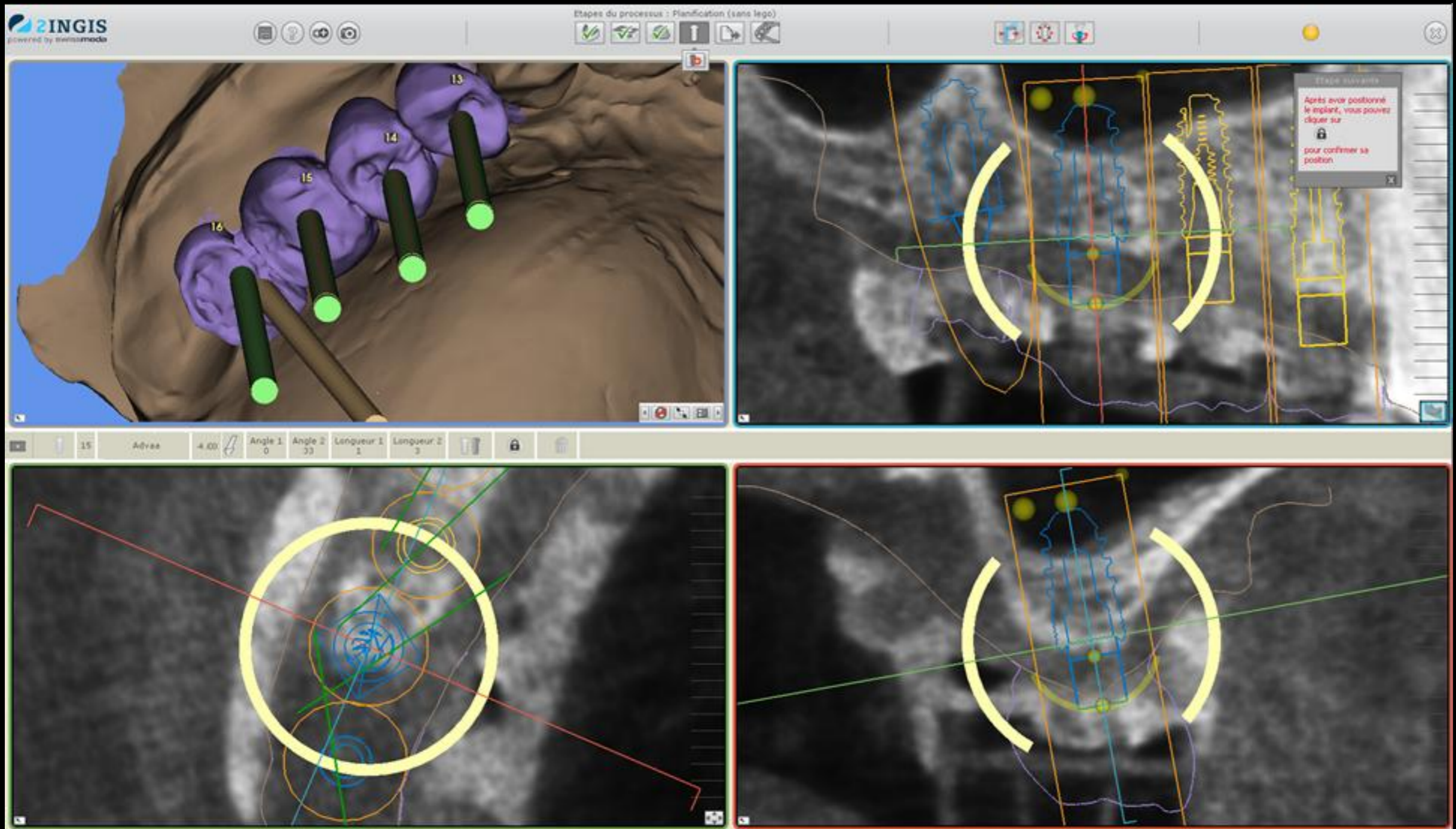
# Implant planning Position 16.

Planning of an Conical Advaa Implant  $\varnothing$ 4 mm L 8 with an abutment of 15°



# Implant planning Position 15.

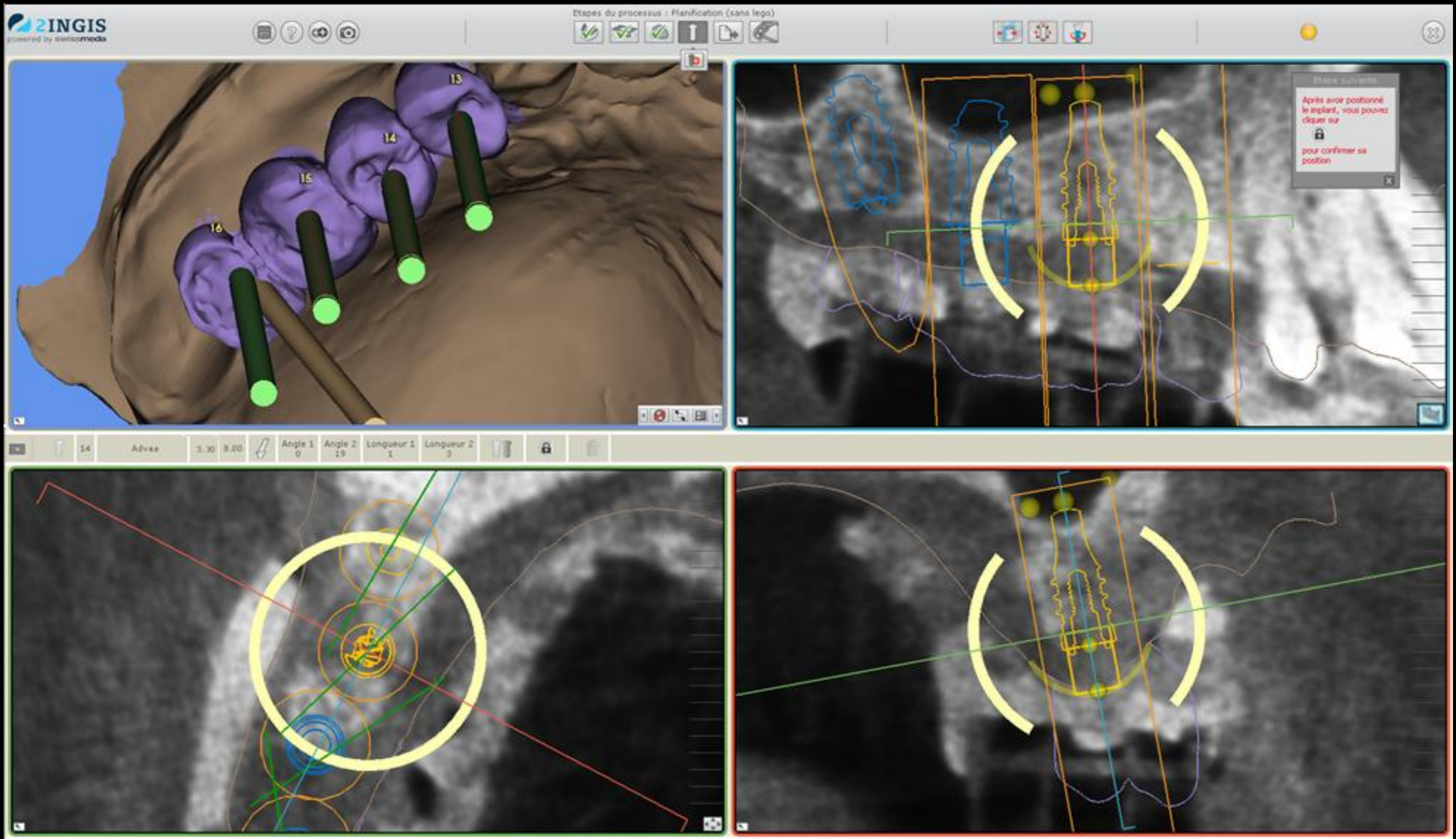
Planning of an Conical Advaa Implant  $\varnothing 4$  mm L 8 with an abutment of  $0^\circ$





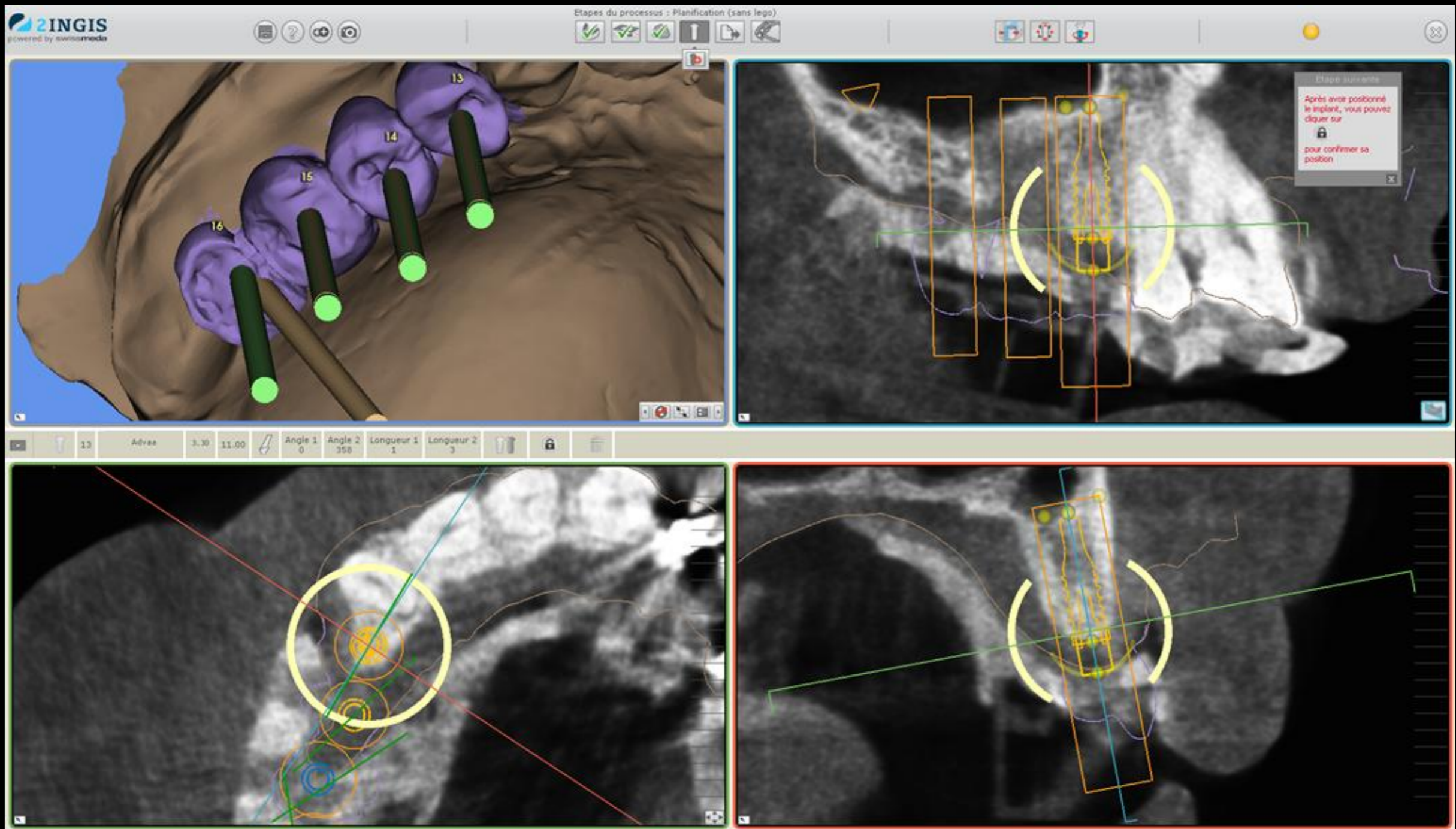
# Implant planning Position 14.

Planning of an Conical Advaa Implant  $\varnothing 3,3$  mm L 8 with an abutment of  $0^\circ$

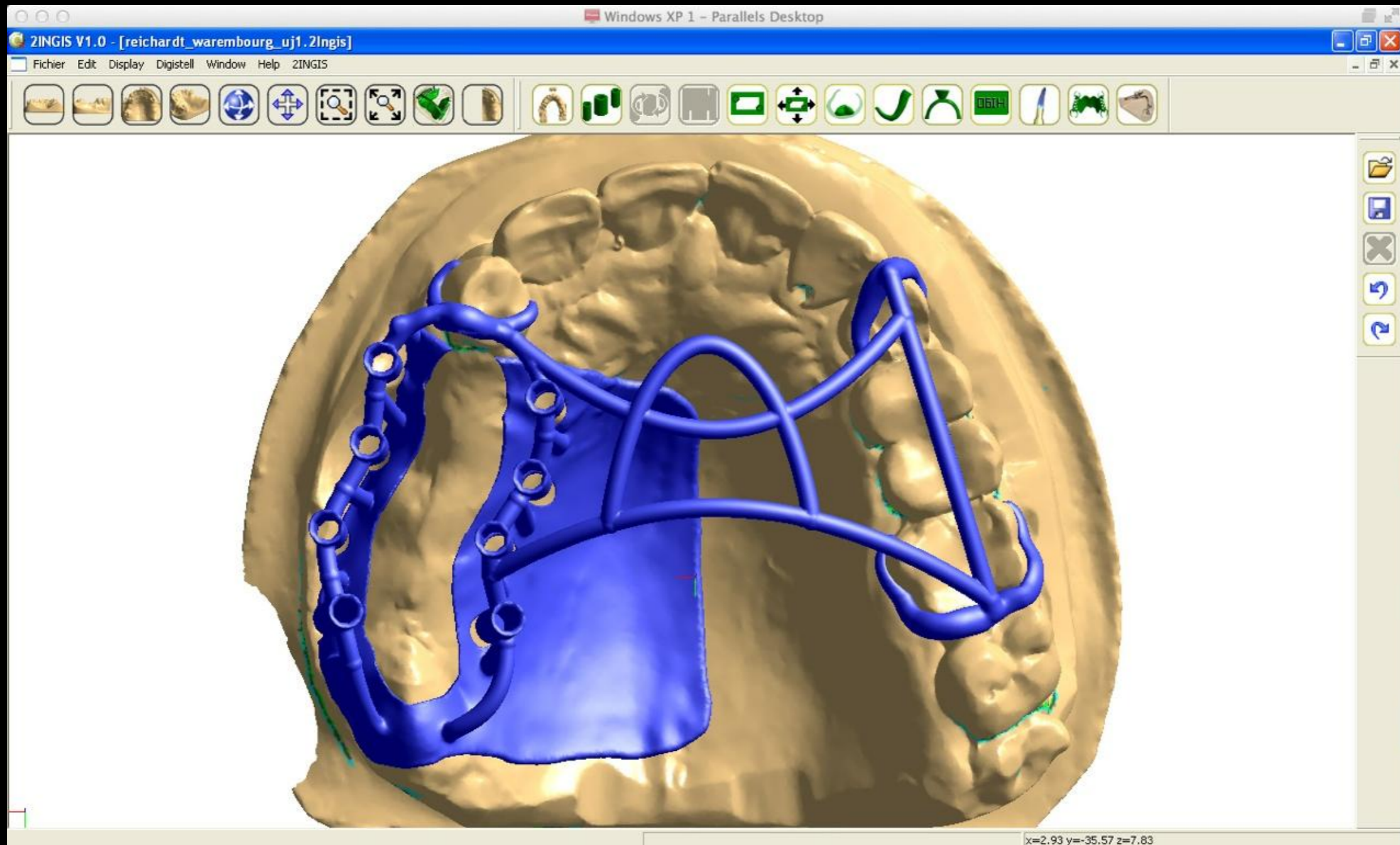


# Implant planning Position 13.

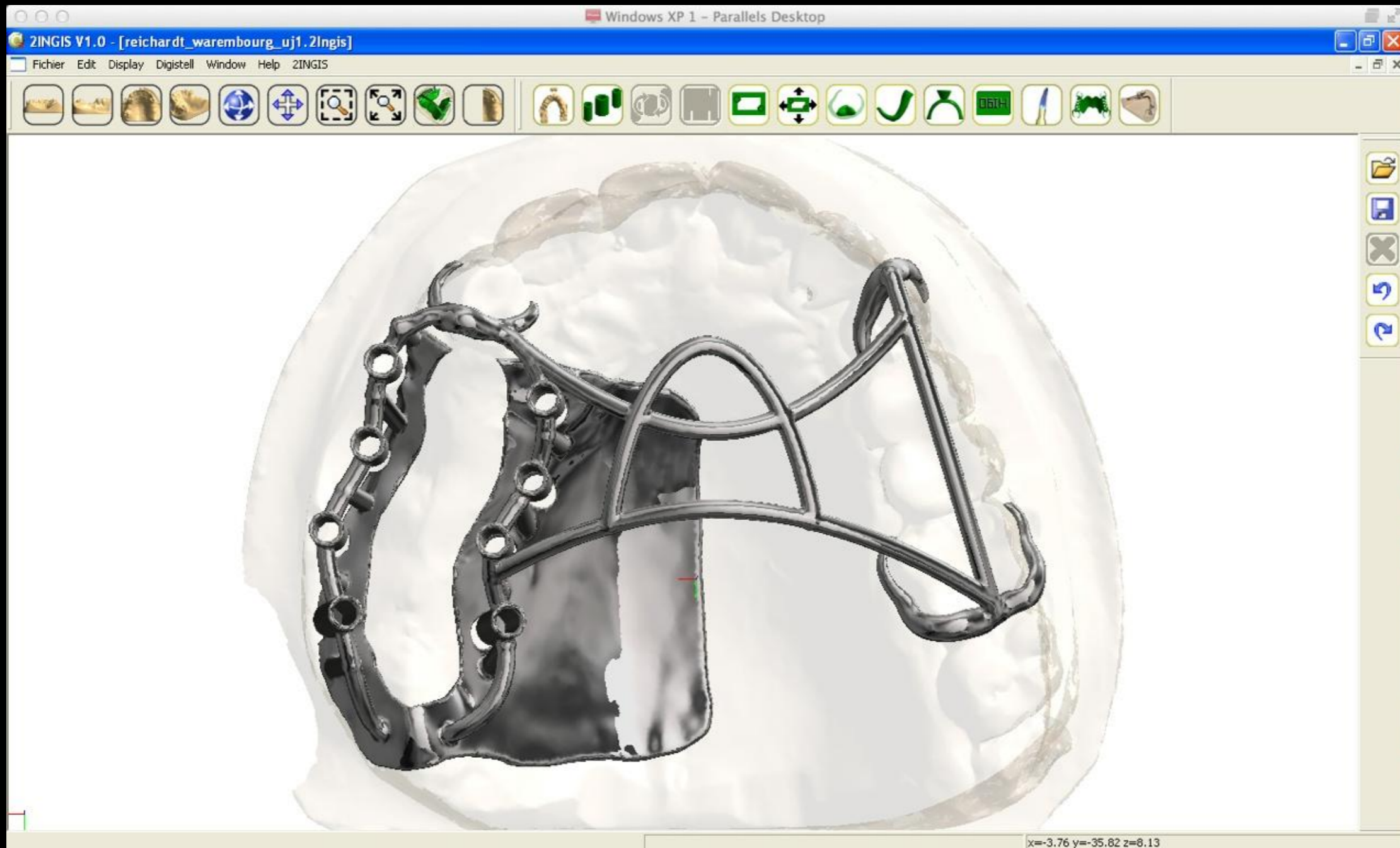
Planning of an Conical Advaa Implant  $\varnothing 3,3$  mm L 12 with an abutment of  $0^\circ$



# 2INGIS Surgical guide design



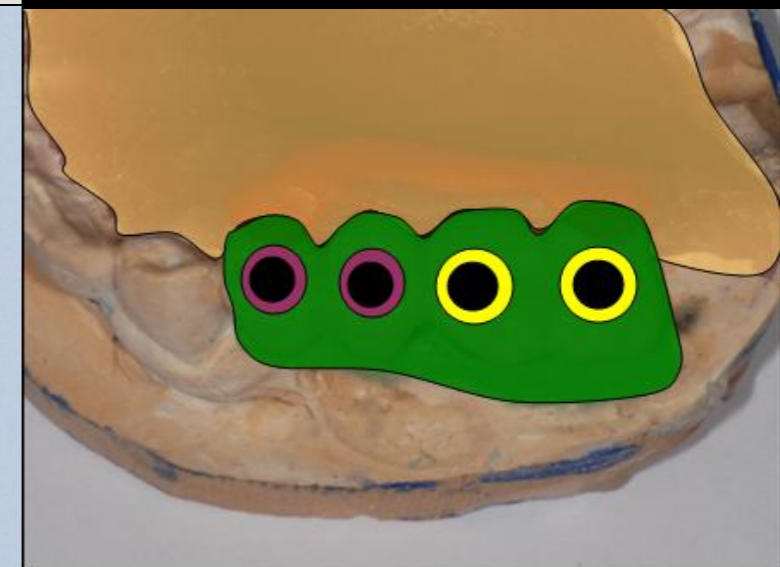
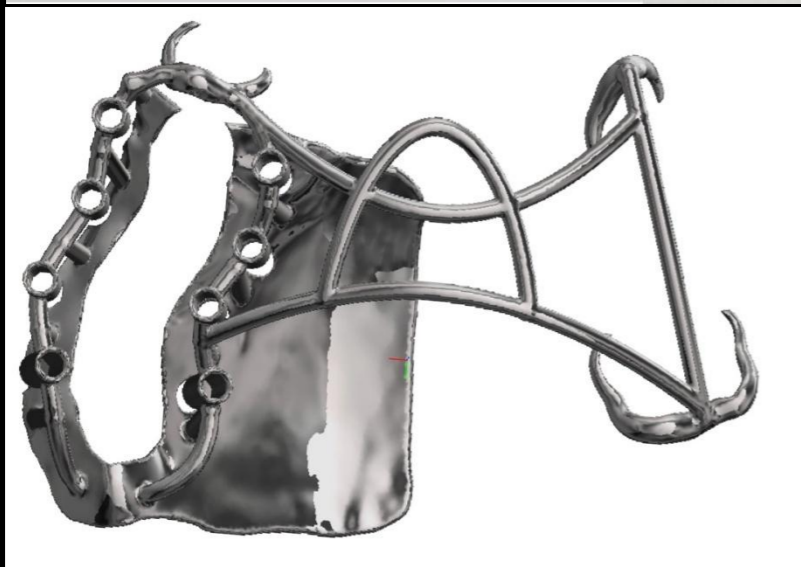
# 2INGIS Surgical guide design



# Preparation Steps



On the model a silicone gingiva is made  
Thanks to the surgical guide the holes  
are made in the stone model with the  
same surgical instruments.  
With the same instruments the analogues  
are placed into the model.



# Designing of the individual abutments with



# Designing of the individual abutments with

Client

No de client: 00003

Nom: Lavenu

Travail

Date: 12/03/2014 10:44:34

Nom: Lwarembourg

Teinte de la dent: A1

Technicien

No de technicien:

Nom:

Notes:

Sélectionner traitement pour dent 14

Couronnes/ Chapes

- Couronne anatomique
- Chape réduite
- Couronne pressée
- Chape simple
- Couronne Préformée
- Couronne Provisoire

Pontiques

- Pontique anatomique
- Pontique réduit
- Pontique pressé
- Pontic Provisoire

Inlays/Facettes

- Inlay/Onlay
- Inlay chape
- Facette

Unités primaire

- Téléscope primaire
- Barre (pilier)
- Barre (segment)
- Attachement primaire

Waxups

- Waxup
- Waxup réduit
- Pontique Wax Up

Gouttières

- Gouttière
- Gouttière (dent manquante)

Dentition Résiduelle

- Dent manquante
- Dent adjacente
- Antagoniste

Coping: GC\_Zirconia\_3ax

Scan de situation: non

Gencive séparé: oui

Type d'implant: Pilier personnalisé

Abutment material: NP Metal

Réduction: 0,8 mm

Épaisseur minimale: 0,6 mm

Espace ciment: 0,07 mm

Réglages avancées

Début du ciment: 0,3 mm

Fin du ciment: 0 mm

Espace suppl. X/Y: 0,02 mm

Épaisseur des limbes: 0,1 mm

Contour limites en angle: 0,3 mm

Angle: 0 °

Contour limites vertical: 0 mm

Vue en coupe du connecteur: 9 mm

Ne pas combier: 0 mm

Couleur:

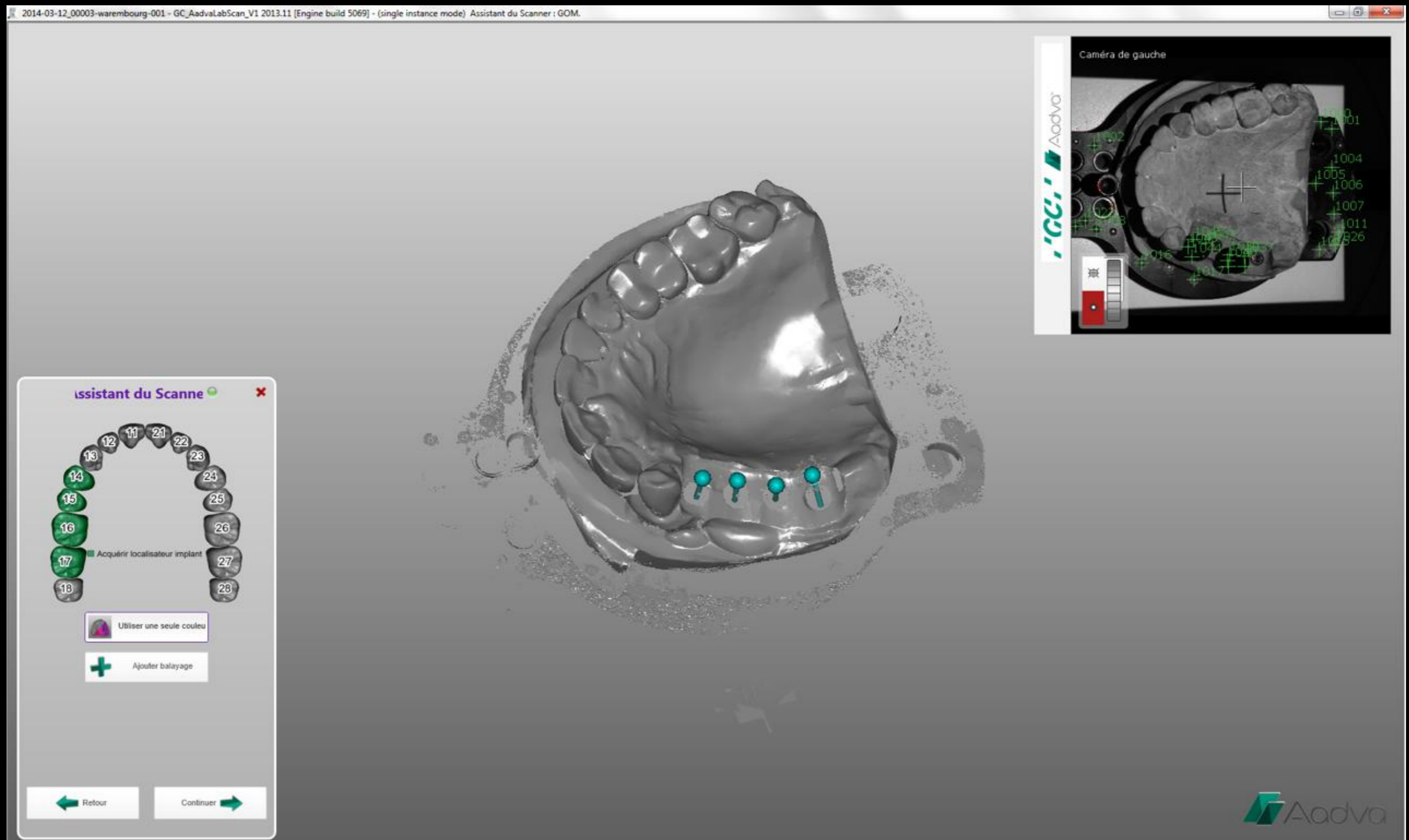
Sélectionnez ci-dessous les détails du travail

Aadva

Projet non sauvegardé

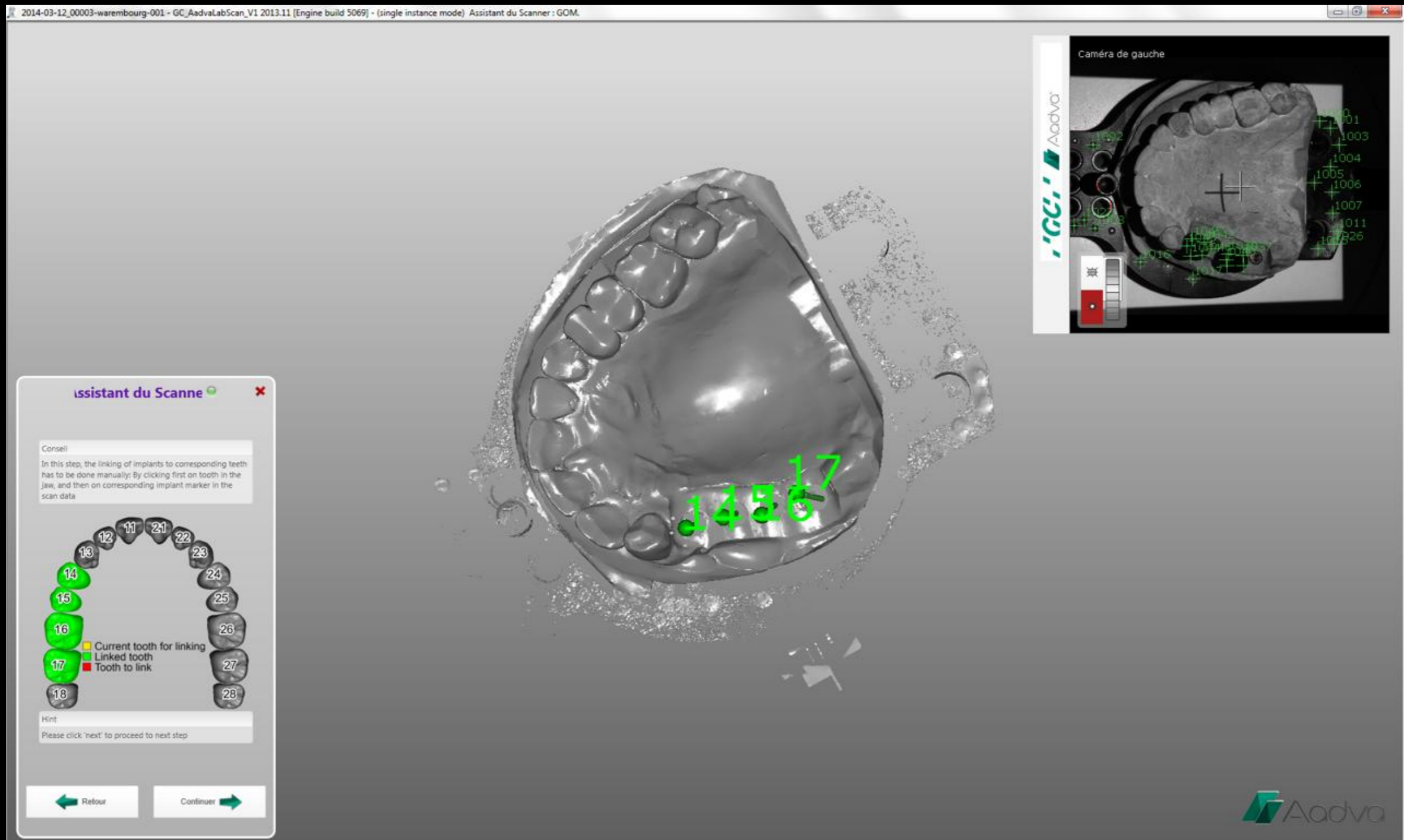
Mode Multidite

# Designing of the individual abutments with

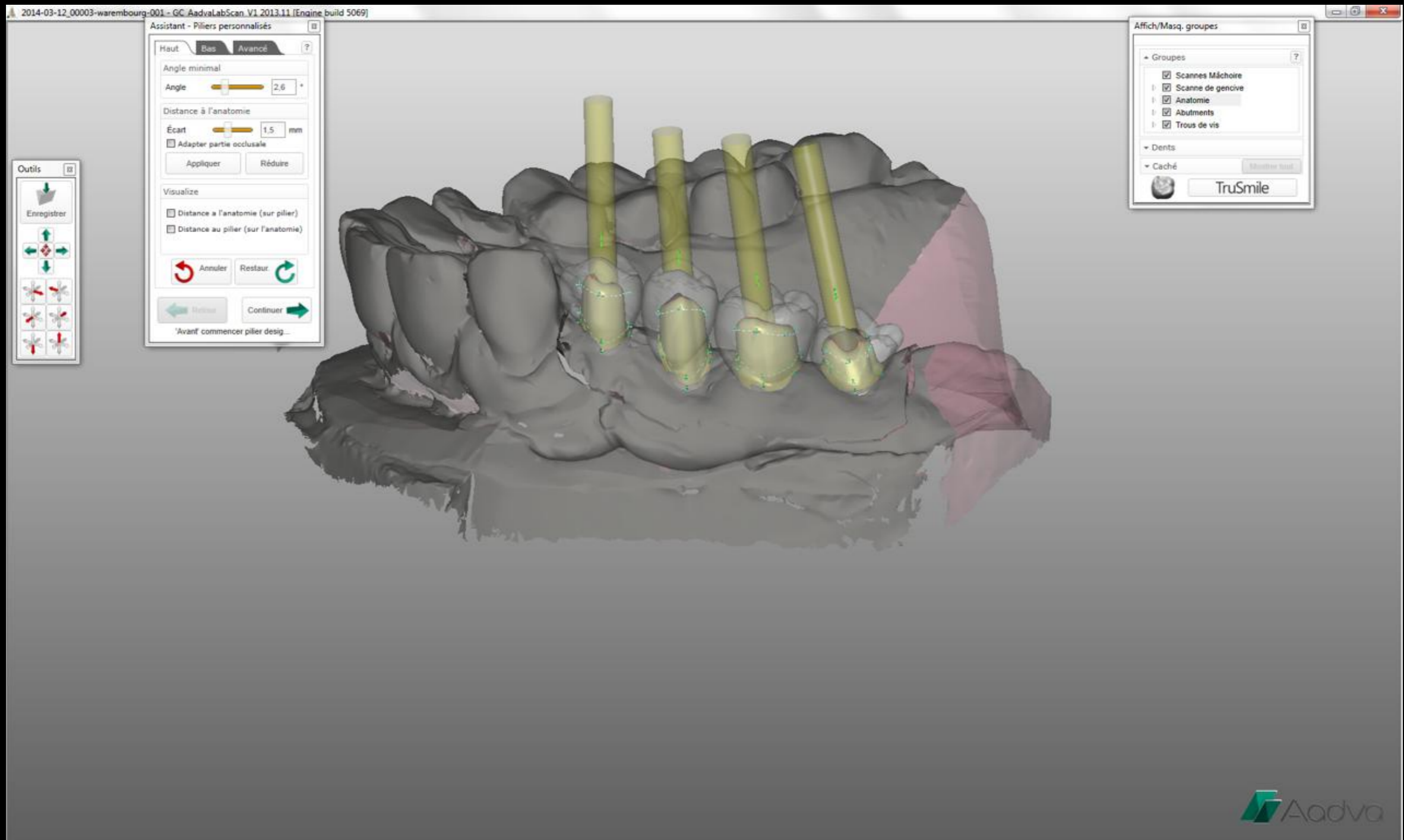




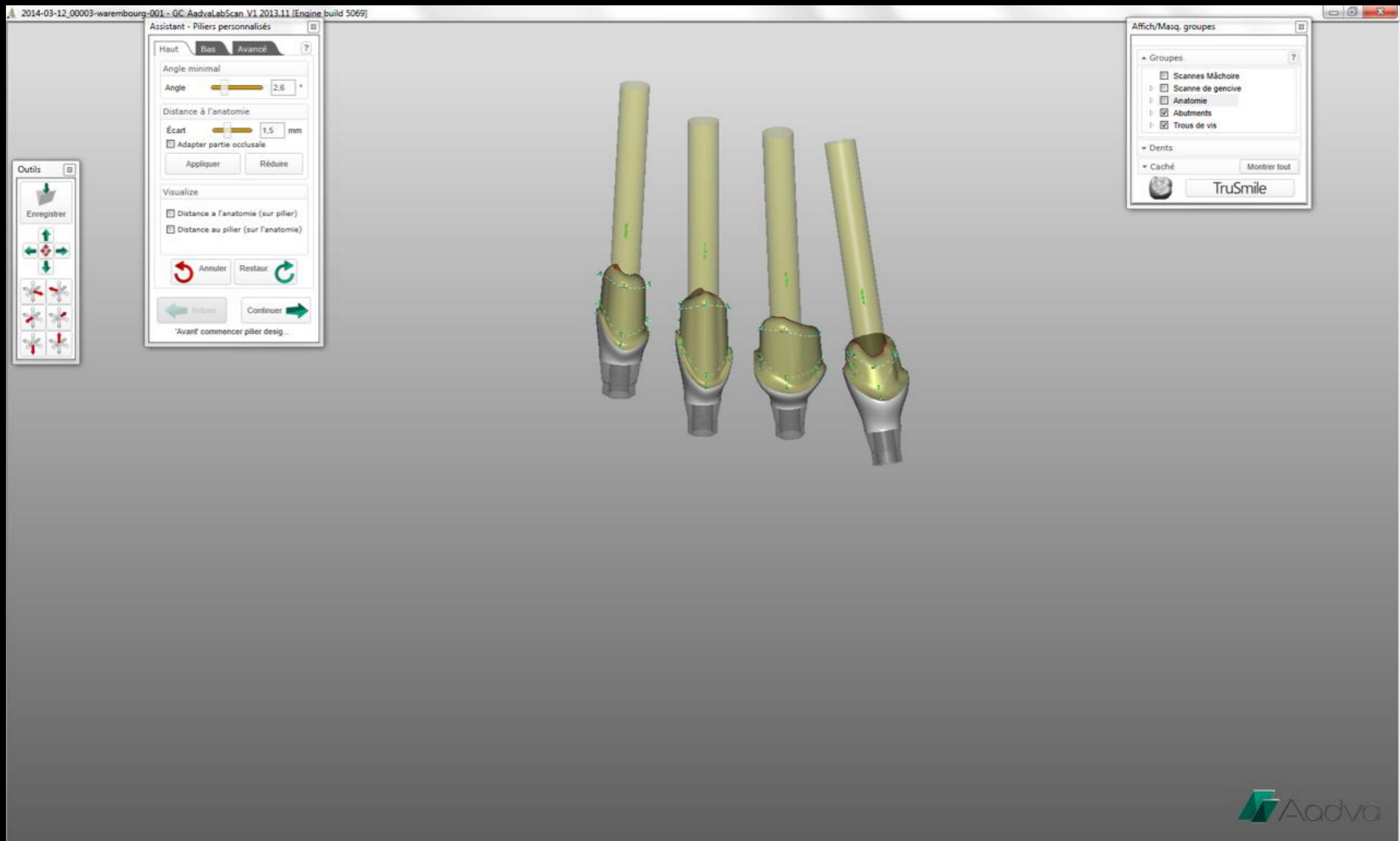
# Designing of the individual abutments with



# Designing of the individual abutments with

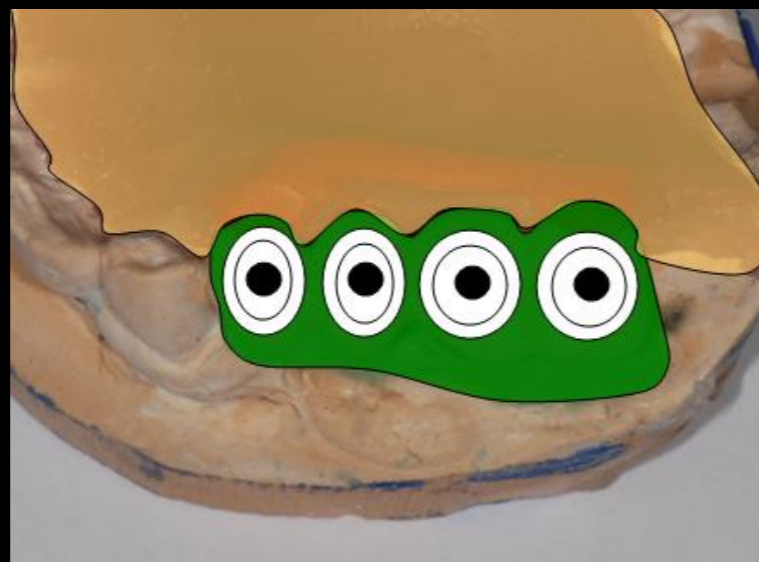


# Designing of the individual abutments with

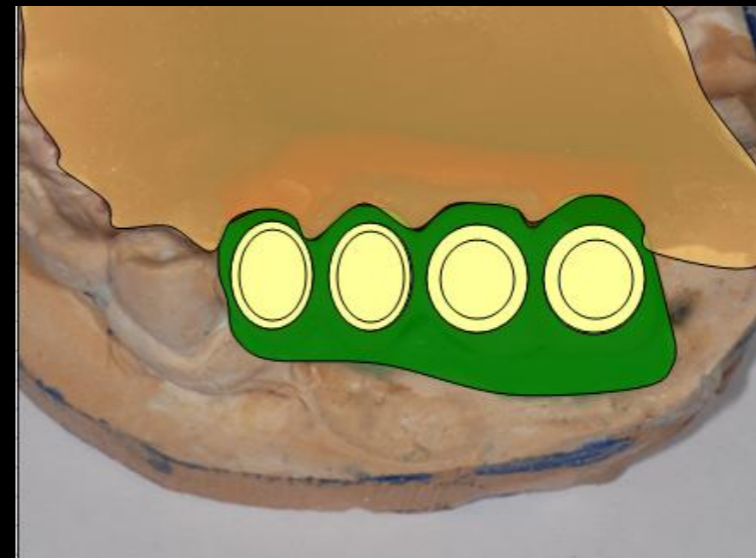


# Temporary bridge on Final abutments

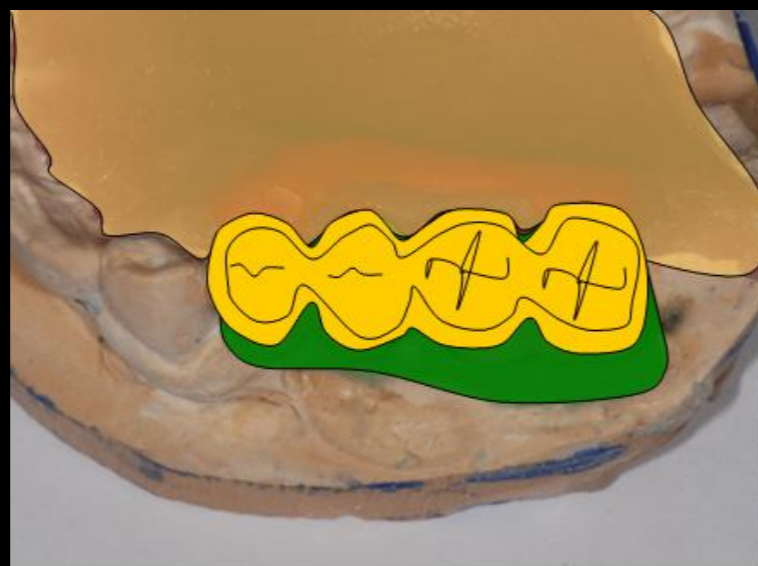
Final Individual abutments



PMMA temporary caps



PMMA temporary Bridge



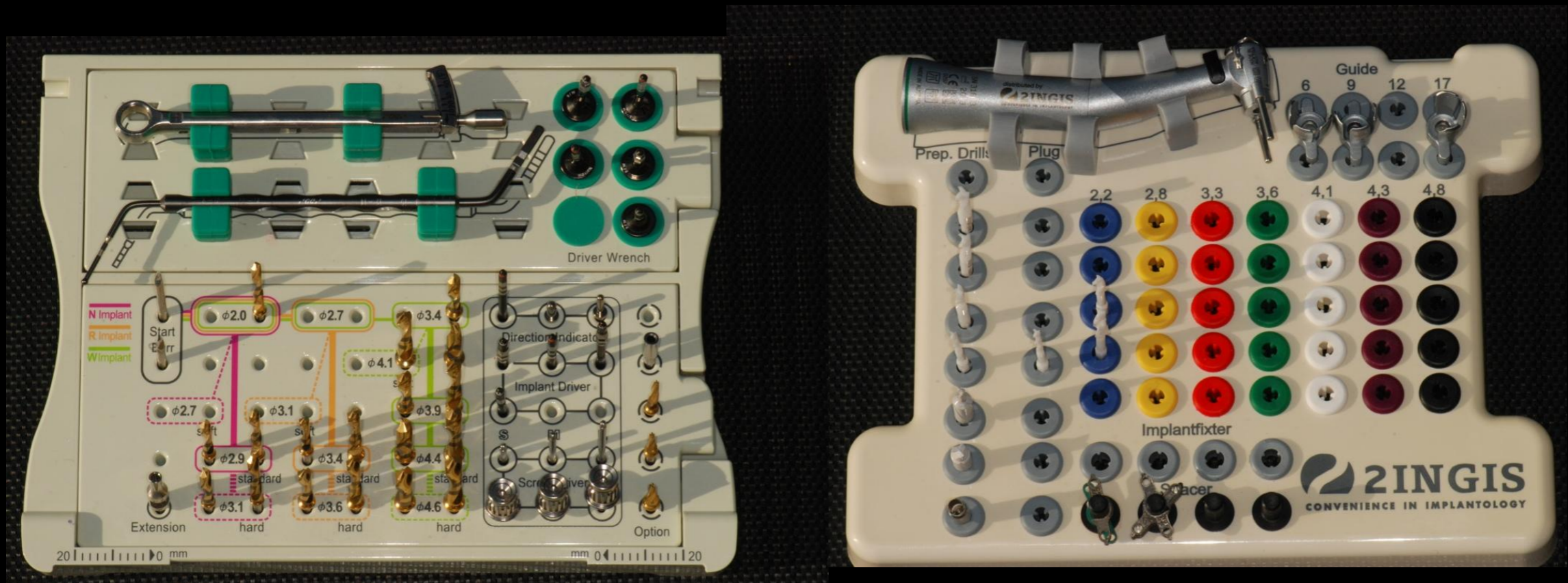
PMMA temporary Bridge fixed with GC Patern on Light cure positiner



# Start situation



# Advaa and 2INGIS Surgical kit



# Surgical plan Step by Step



Implant	GC AADVAS											
	16	15	14	13								
Position												
Length	L8.0	L8.0	L8.0	L12.0								
Diameter	4.0	4.0	3.3	3.3								
Healing												

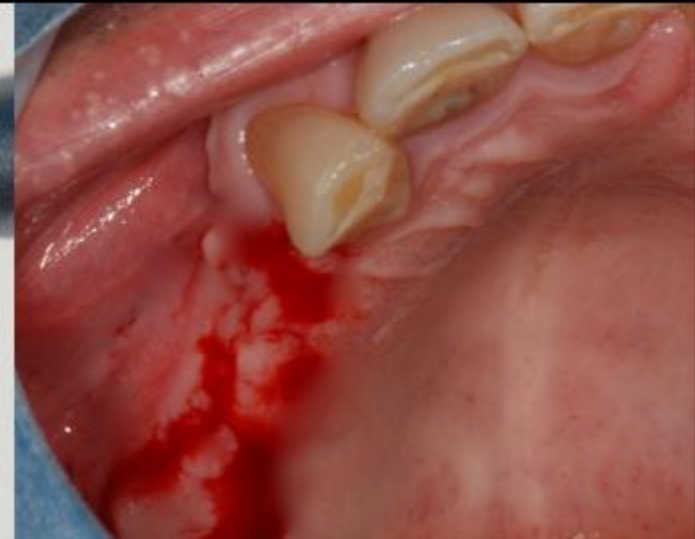
Dr. REICHARDT Pt. Warembourg J-P

Tools																		
1	Ø4.2 / L 29= 0 <small>ZH800ZG</small>		16	15	14	13												12mm
2	Ø4.2 / L 29= 0 <small>ZF900ZG</small>		16	15	14	13												12mm
3	Ø 2.0 / L37=8 <small>ZF12008</small>		16	15	14	13												12mm
4	Ø3.1-1.5 / L37=8 <small>TP N 8</small>				14													12mm
5	Ø3.8-1.5 / L37=8 <small>TP R 8</small>		16	15														12mm
6	Ø3.1-1.5 / L43=14 <small>TP N 10-14</small>					13											Spacer	12mm
7	NARROW L 30=1 <small>004001N</small>				14	13											Spacer	12mm
8	REGULAR-WIDE L 30=1 <small>004003R-W</small>		16	15													Spacer	12mm



# Start of the surgery

- *Using of the punch for flapless surgery*





# Start of the surgery

## *Step by step drilling*

2INGIS Zircoflat



2INGIS Zirco  
Drill 2.0 L 8



Advaa Conical  
Drill 3.0/2.0



Advaa Conical  
Drill 3.7.0/2.0 L8



Advaa Conical  
Drill 3.0/2.0 L12



# GC Implants & 2INGIS Tools

## *Implant drivers and Implants*

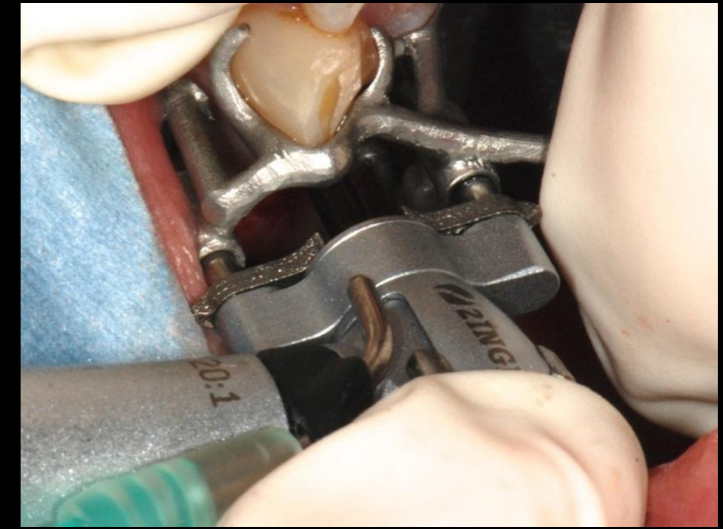
2INGIS Contra Angel guide , 2INGIS Spacer and GC Implant Drivers



# Implant placement

## *Implant drivers and Implants*

Full Contra Angle Implant placement with Torcq Control



# Immediate Loading

C

Final Advaa Zircon Abutments



Individual temporary PMMA caps



Temporary Bridge with fixation guide  
The bridge is fixed in the mouth on the caps with self cure composite



Bridge Fixed on the caps

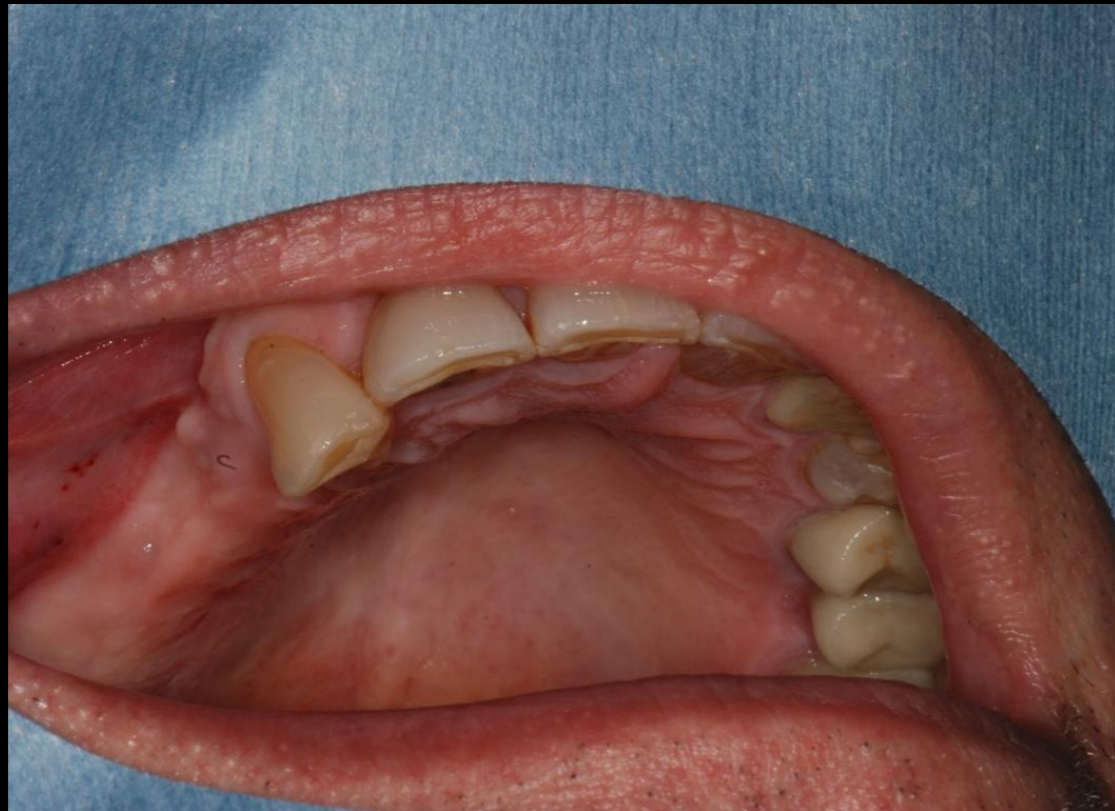


# Result of immediate loading



# Immediate Loading Result

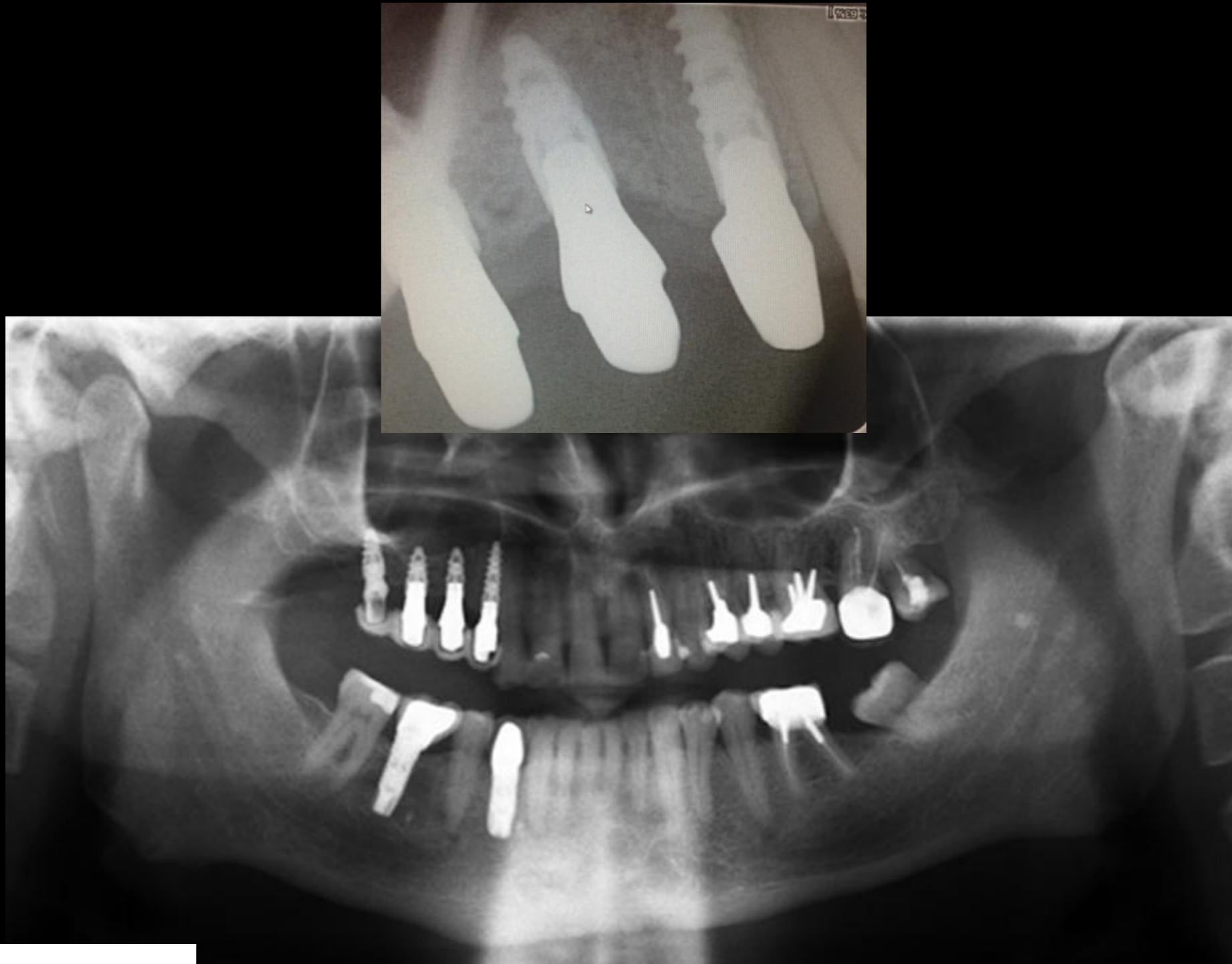
Before



After



# Immediate Loading RX Result



# Thank You for your attention

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