# PRESERVATION OF ANTERIOR GUIDANCE IN A DIGITAL WORKFLOW

CASEY D. GOSS, CAPT, USAF, DC



#### **DISCLOSURE**

The views expressed are my own and do not reflect the official views or policy of the Department of Defense or its Components

# **OUTLINE**

- Patient info
- Analog workflow
- Digital workflow
- Results





#### **DENTAL HISTORY**

- Pt referred to the prosthodontics clinic following orthodontic treatment and orthognathic surgery
- Findings:
  - Missing: #7, 10, 24, 25
  - Implant #13 mobile and painful failing and explanted by Perio
  - Occlusal contacts on left posterior teeth and implants only
- Pt expressed desire for non-implant restorations to complete his treatment



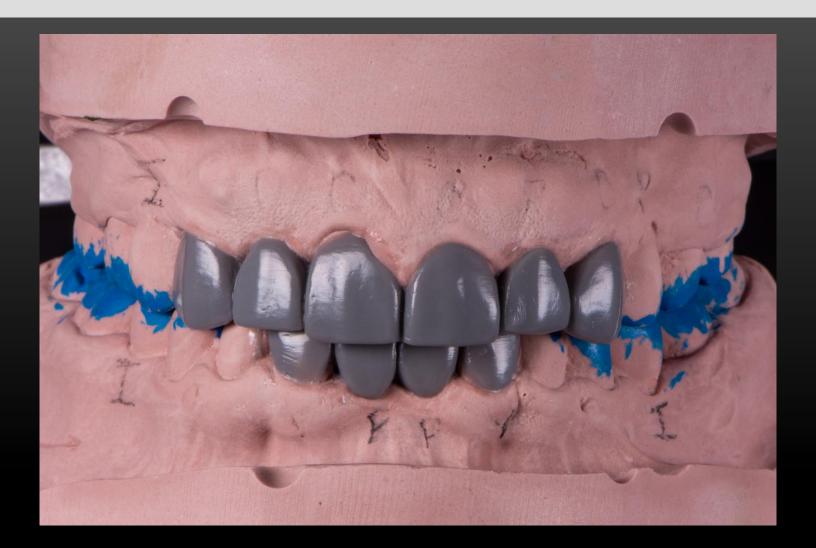


## INITIAL PHOTOS

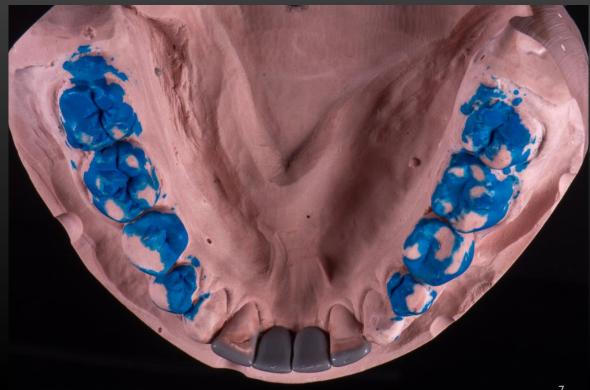














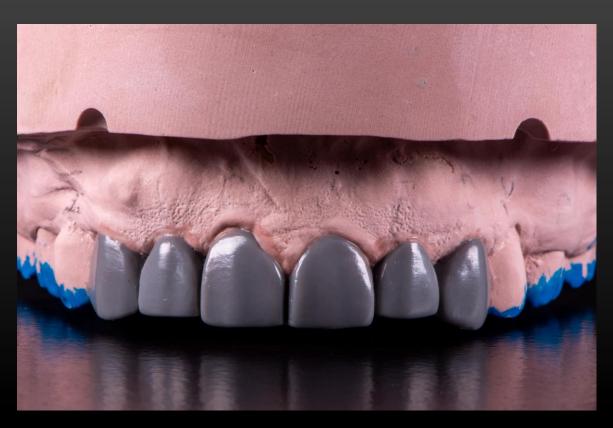
















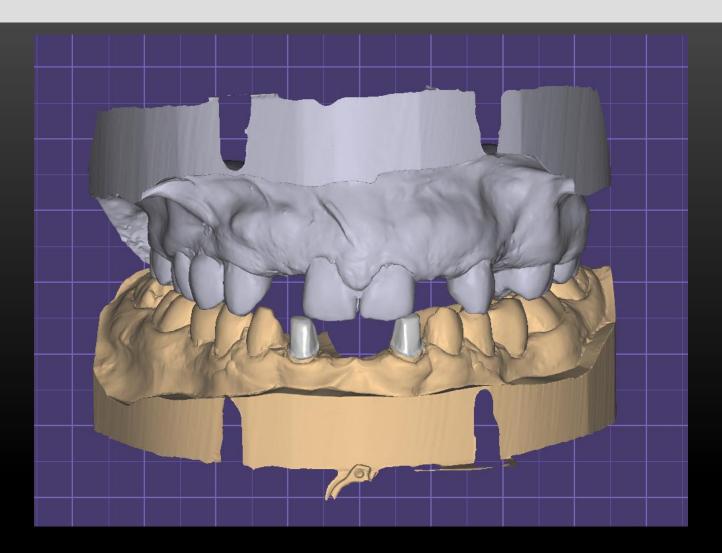




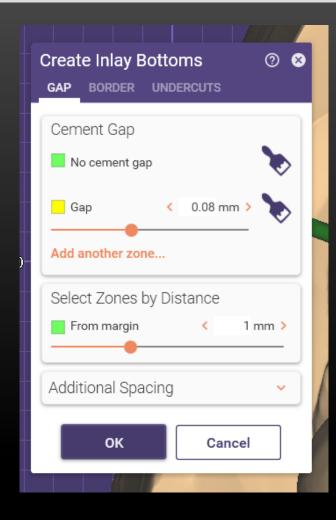
## VENEER FDP PREPARATIONS AND PONTIC SITE DEVELOPMENT

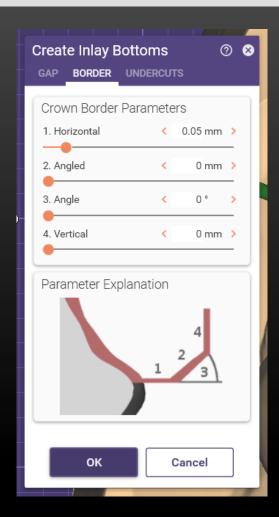


## IMPORTED CAST SCANS



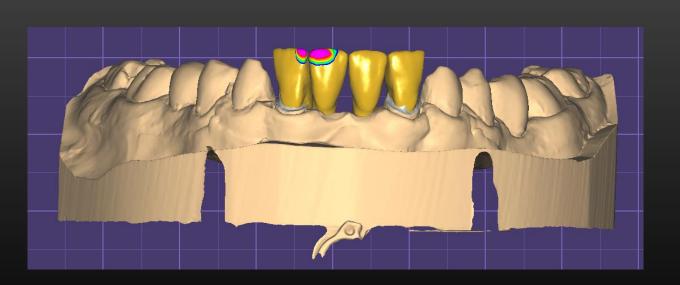
#### PARAMETERS AND INSERTION DIRECTION

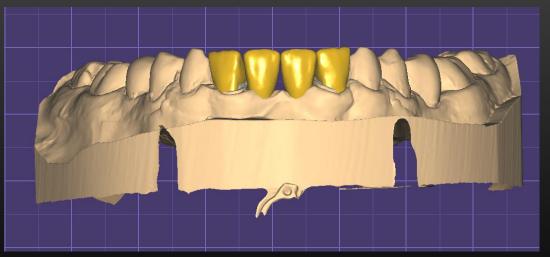




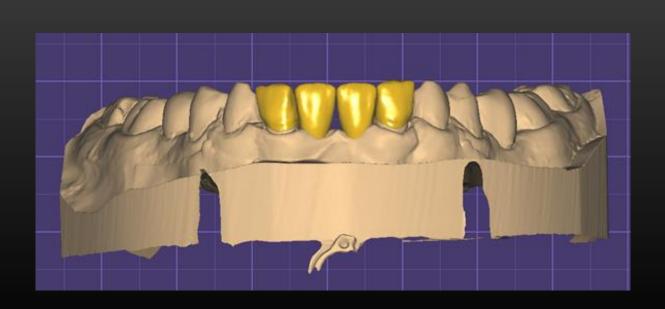


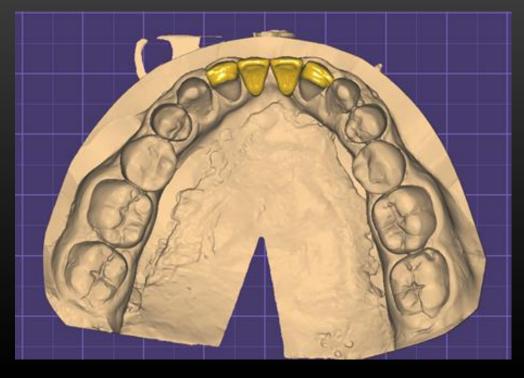
## POSITIONING OF MODEL TEETH



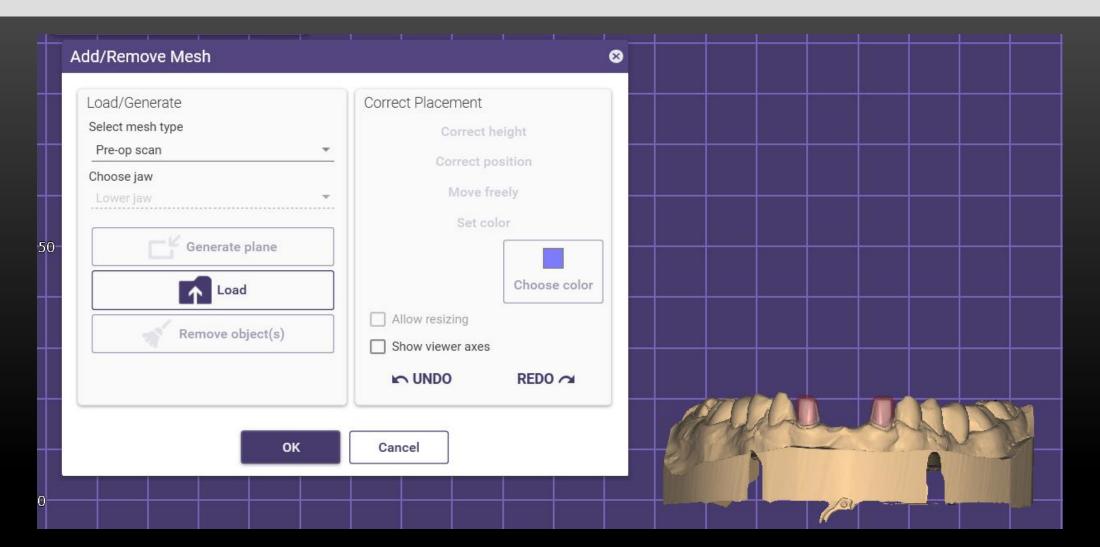


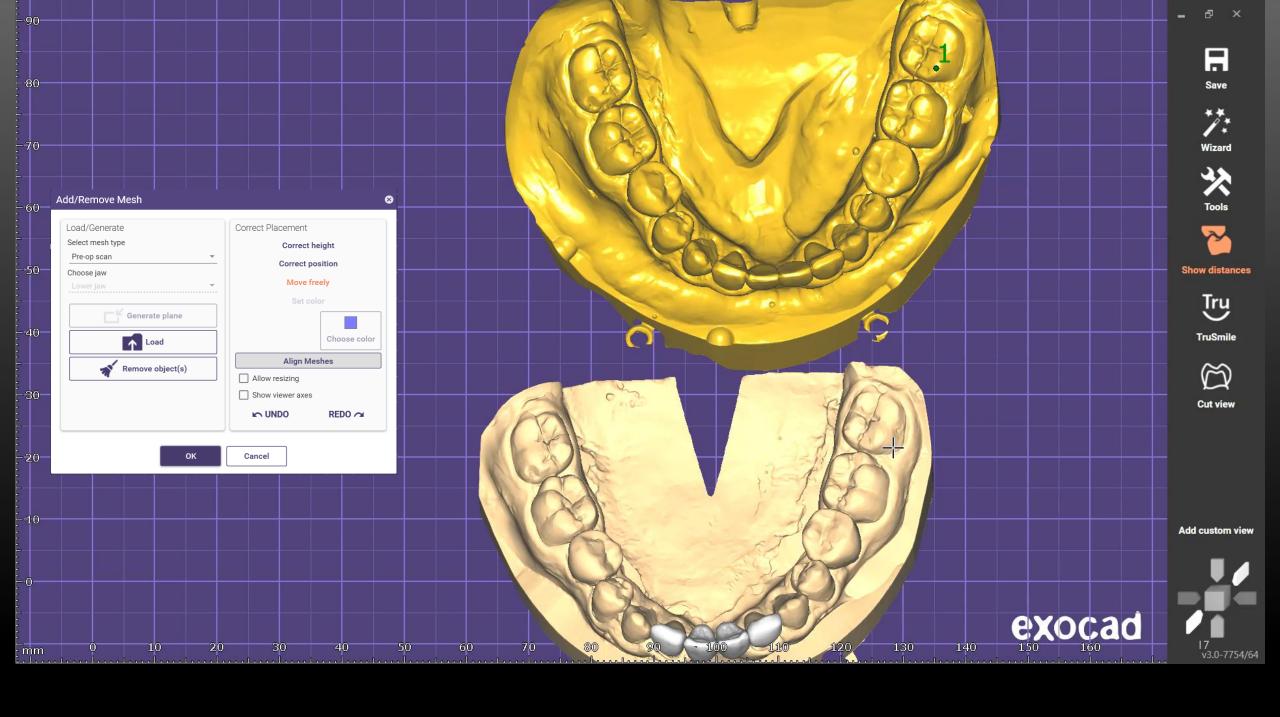
## INITIAL FREE FORMING

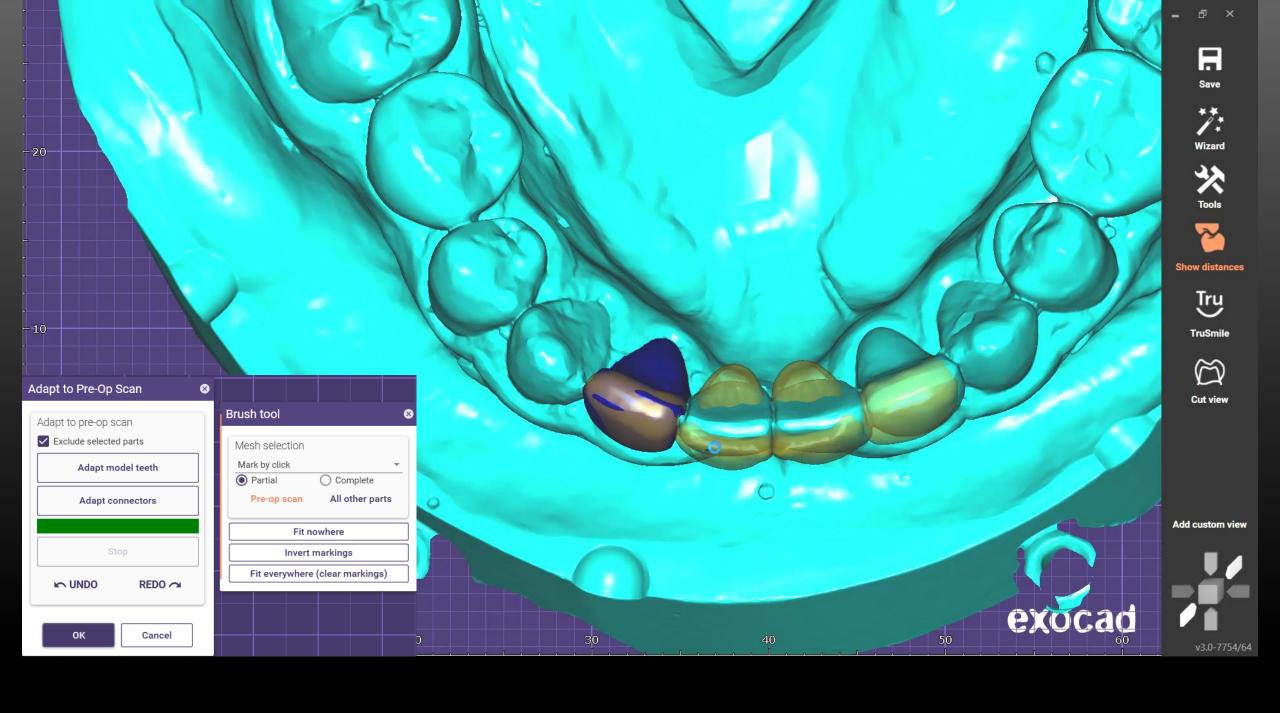


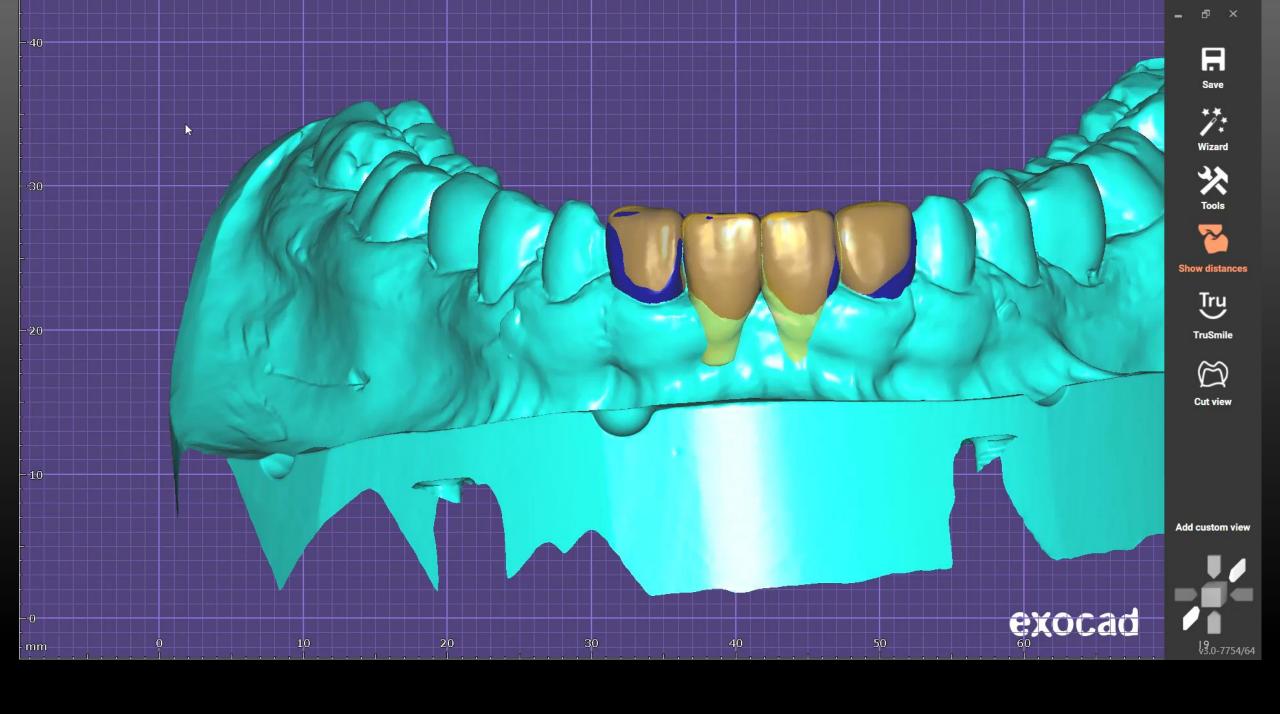


#### ADD MESH - IMPORT PRE-OP SCAN

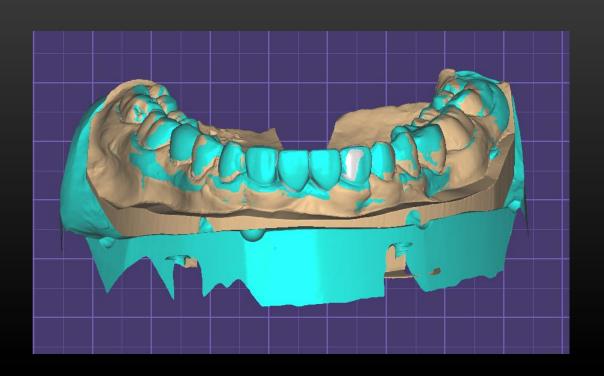


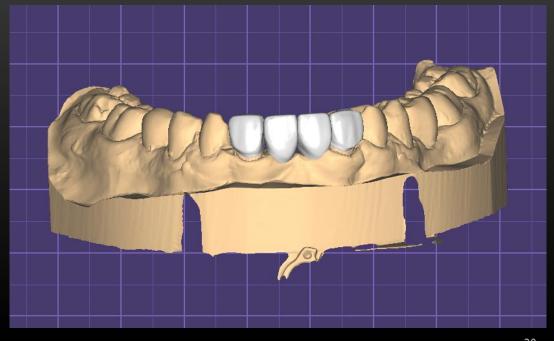




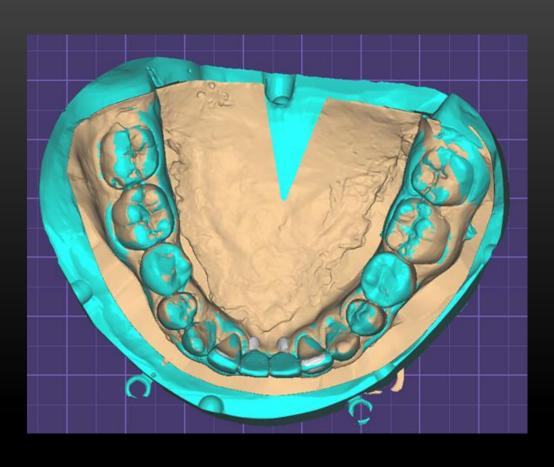


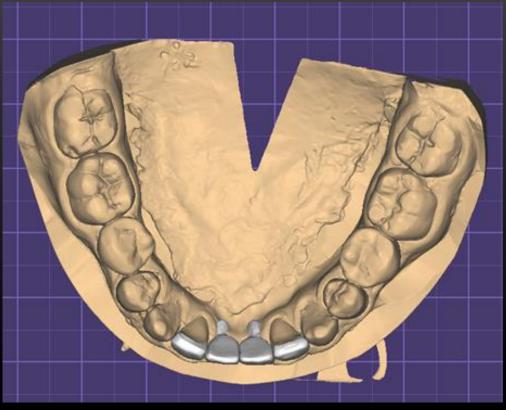
## ADAPTED MODEL TEETH BEFORE FREE FORMING



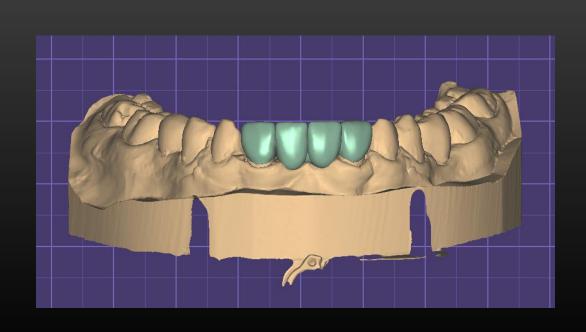


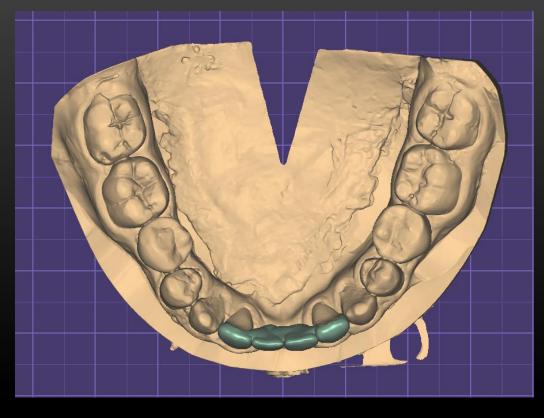
### ADAPTED MODEL TEETH BEFORE FREE FORMING



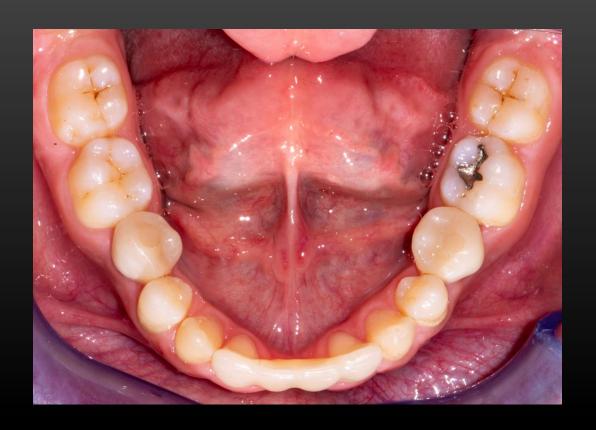


## FINAL DESIGN





# CLINICAL PHOTOS – VENEER FDP

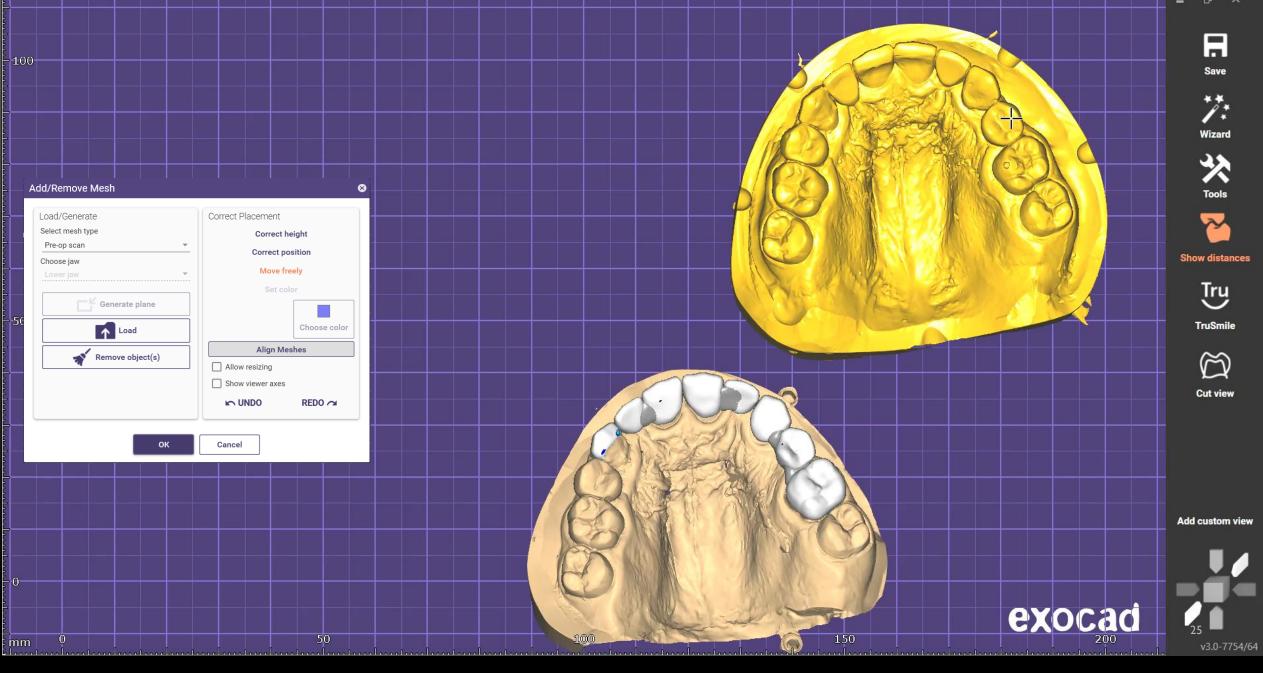




## MAXILLARY PREPARATIONS AND PONTIC SITE DEVELOPMENT

















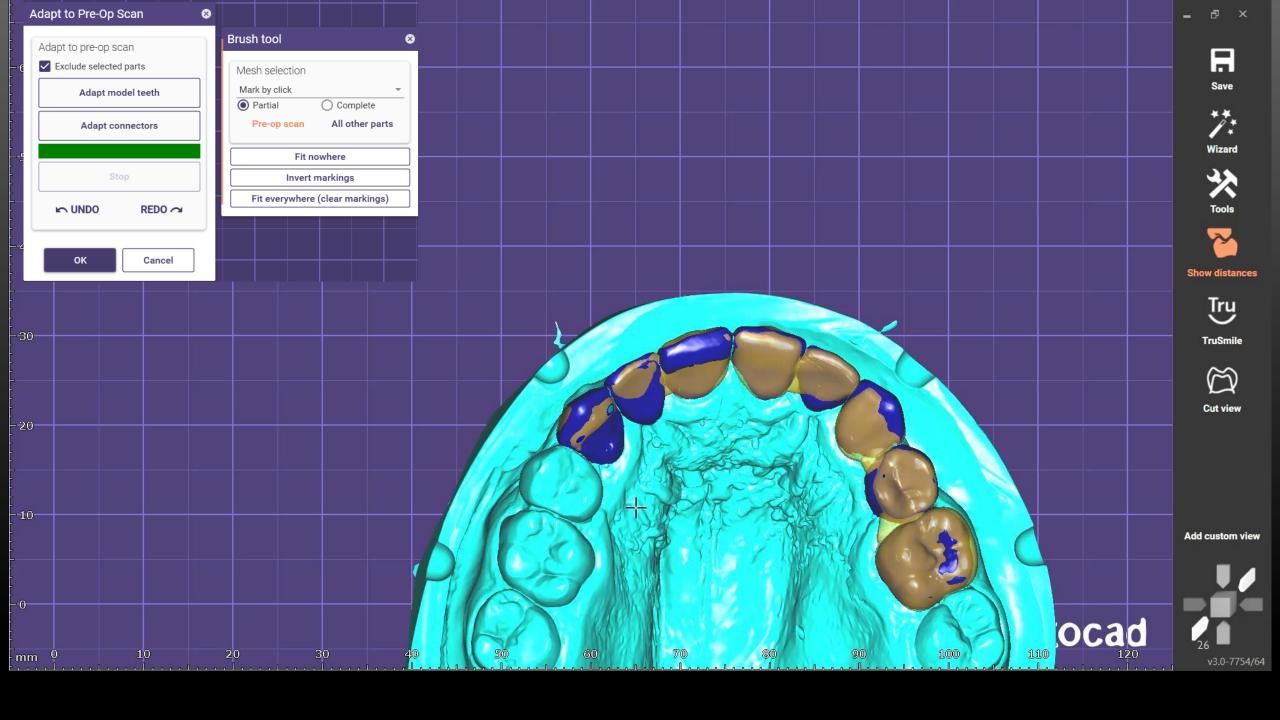
TruSmile

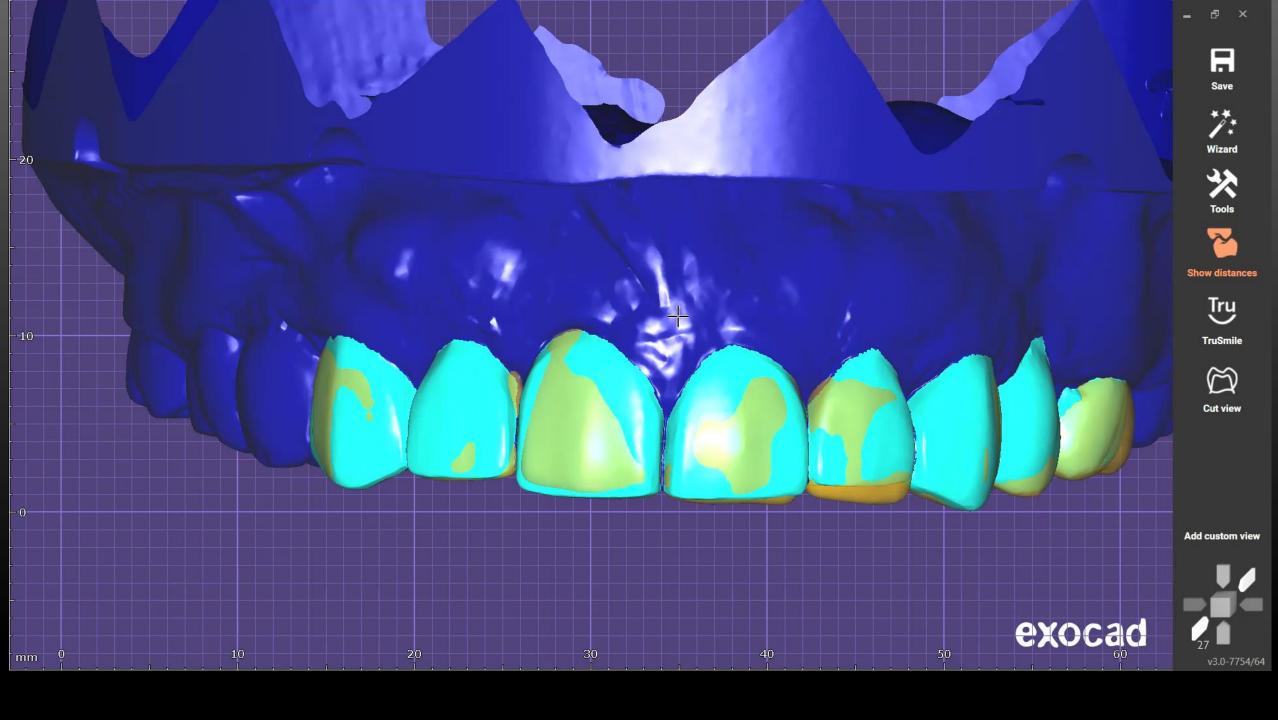


**Cut view** 

Add custom view





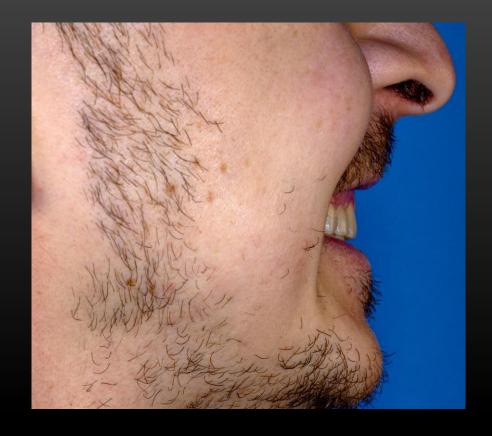




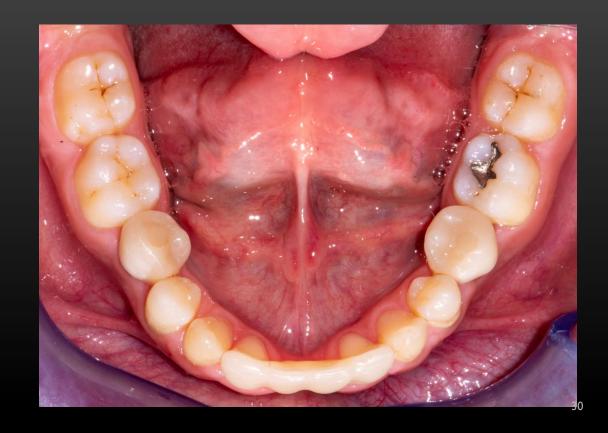
























## BEFORE AND AFTER





#### REFERENCES

- McHorris, W.M., The Importance of Anterior Teeth, The Journal of Gnathology, 1982, Volume 1, Issue 1, Pages 19-28.
- Pokorny PH, Wiens JP, Litvak H. Occlusion for fixed prosthodontics: a historical perspective of the gnathological influence. J Prosthet Dent. 2008 Apr;99(4):299-313.
- Shillingburg, H. T. (2012). *Fundamentals of fixed prosthodontics*. Quintessence Pub. Co.
- Vig RG, Brundo GC. The kinetics of anterior tooth display. J Prosthet Dent. 1978 May;39(5):502-4.

# QUESTIONS?



