



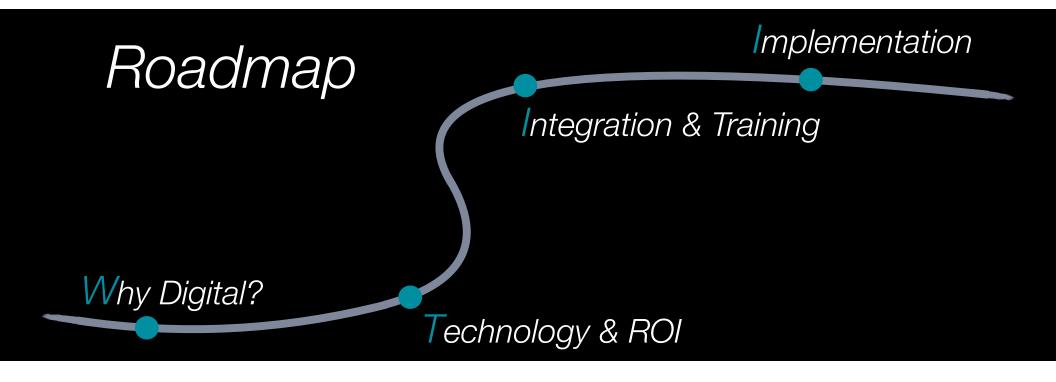
Revilla-Leon, M, et al. Intraoral scanners: An American Dental Association Clinical Evaluators Panel survey, JADA 2021;152(8):669-670.

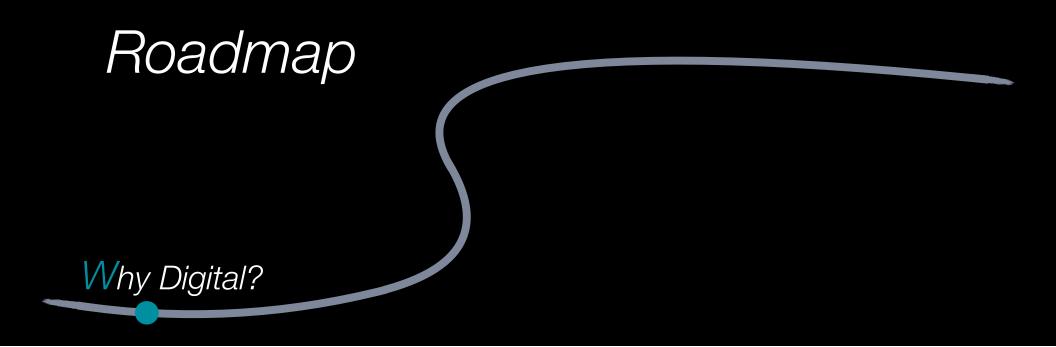




DENTAL

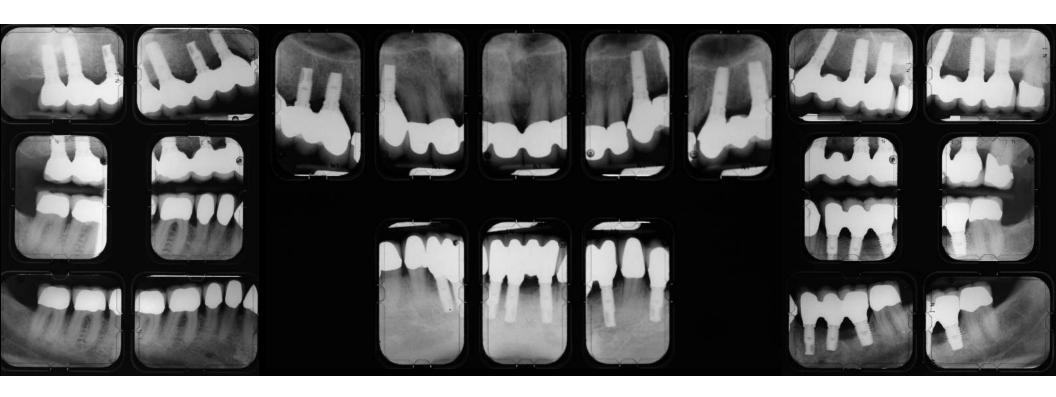


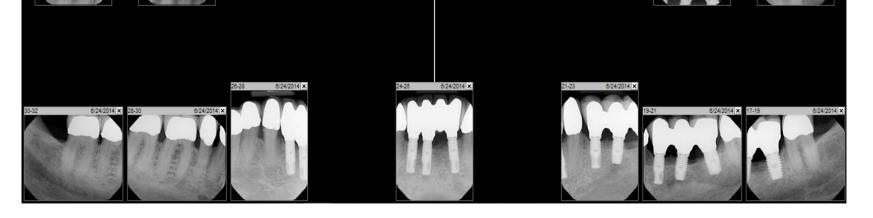


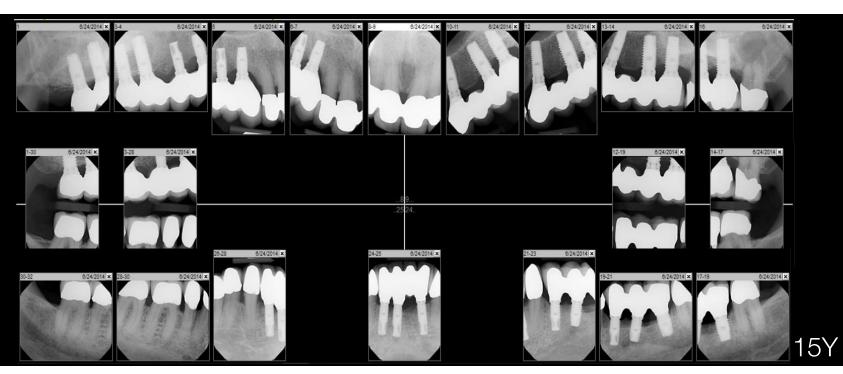


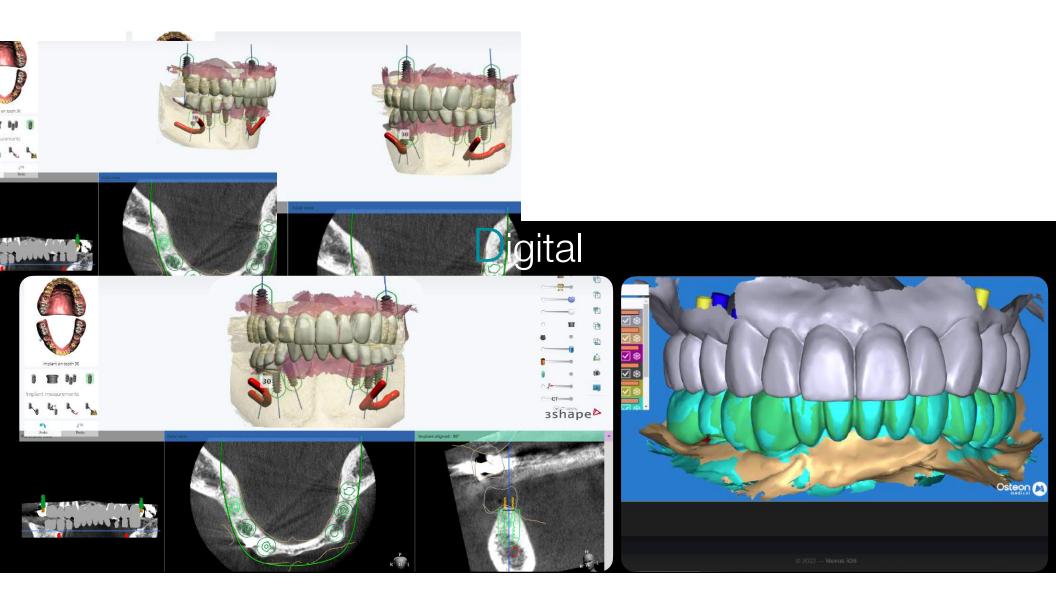
Conventional



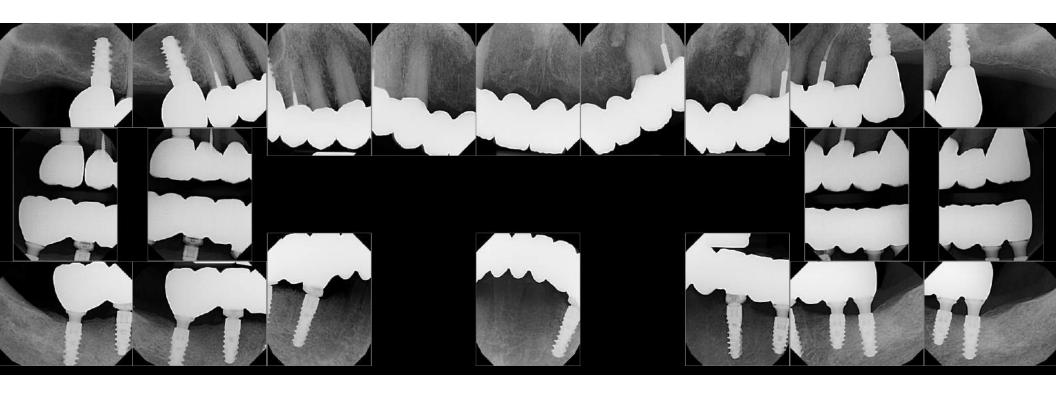






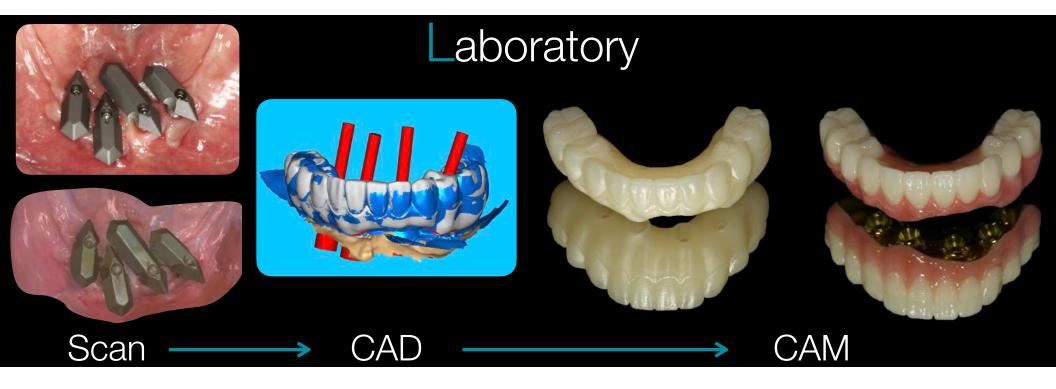














El-Haddad **H, et al**. Laboratory Evaluation of Implant Metal Acrylic Prosthesis Design: Influence of Mono Acrylic Veneer—level complete arch impression. Int J Oral Maxillofac Implants 2020;35:100-106.

Advantages of Digital Technology

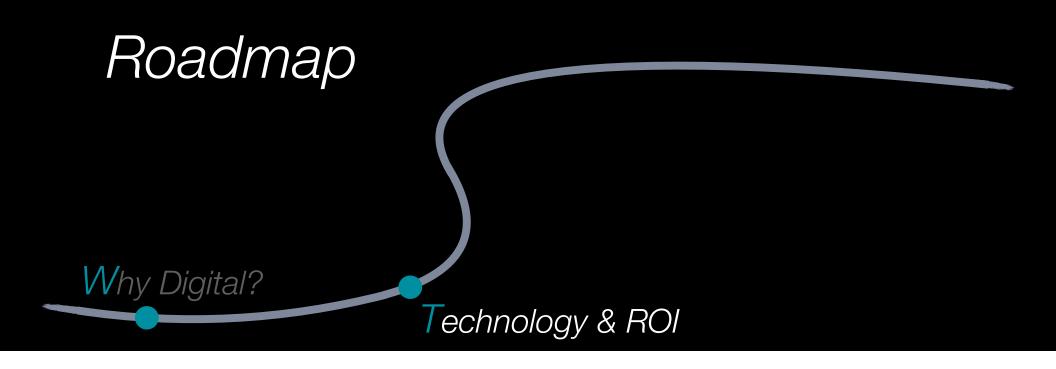
- Improve Patient Experience, Comfort, and Perception
- Accurate and Efficient
- No Messy Impressions and Model Work
- Better Patient, Laboratory, and Referral Communication
- Archival System
- Reduce Supply Costs

Mangano, F, et al. Intraoral scanners in dentistry: a review of current literature. BMC Oral Health, 2017;17:149.

Disadvantages of Digital Technology

- Difficulty Detecting Deep Subgingival Margins
- Inaccurate for Long Span Restorations
- Initial Investment and Software Licensing Costs
- Steep Learning Curve

Mangano, F, et al. Intraoral scanners in dentistry: a review of current literature. BMC Oral Health, 2017;17:149.

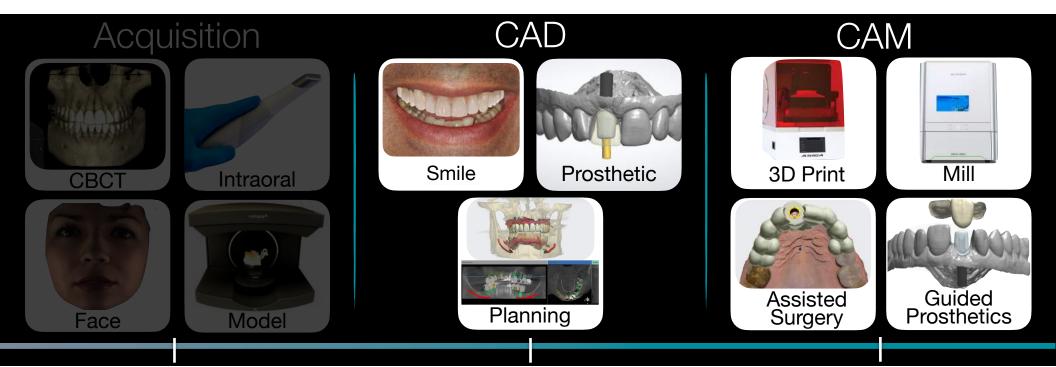


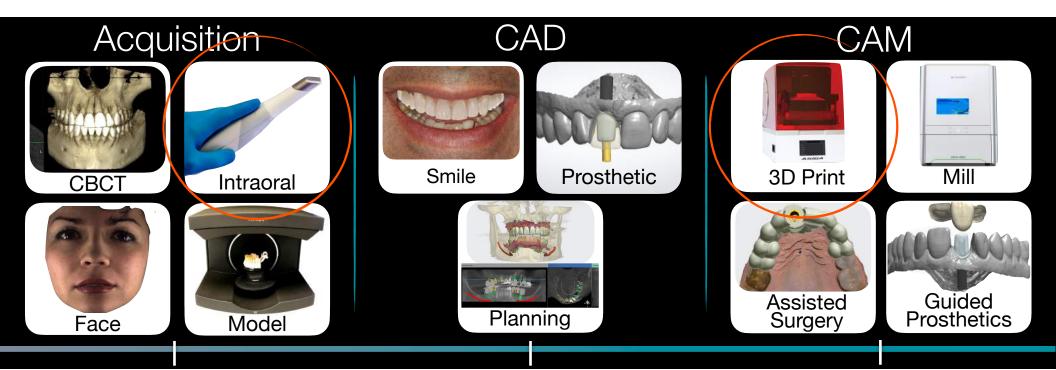
Digital Sequence

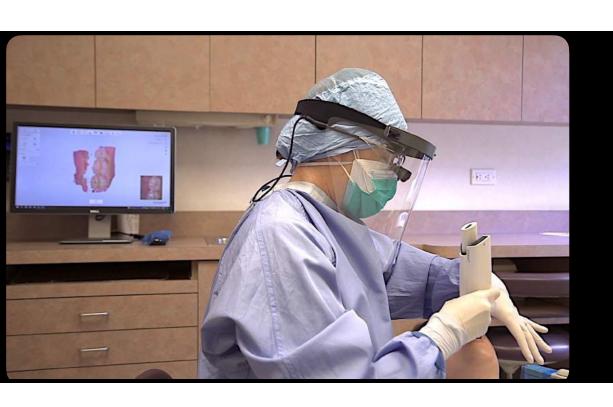
Acquisition CBCT Intraoral







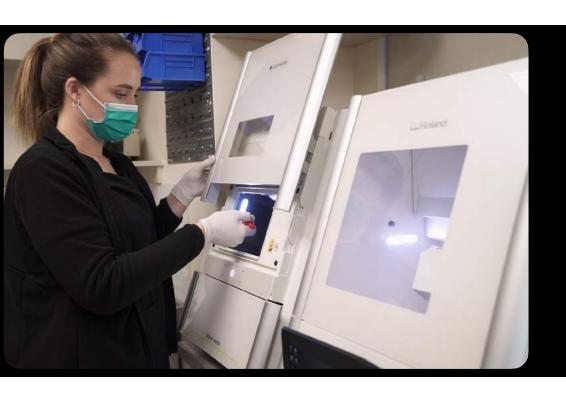




Clinical

- Patient Comfort
- User Friendly
- Open Systems
- Easily Accessible





Financial

- 3-5 Year Cycle & Payoff
- Recurring Licensing Cost
- Hardware Requirements
- Maintenance
- Repair Policy

nvestment

Intraoral Scanner = \$35,000

3D Printer = \$10,000

Milling Machine = \$35,000

Ceramic Furnace = \$10,000

Technology = \$90,000

36 Month Lease at 3.5% Annual Interest Monthly Payment = \$2,637

Technology w/ Interest = \$94,939

nvestment

Technology w/ Interest = \$94,939

Licensing Fees ($$2300/yr \times 3 yrs$) = \$ 6,900

Additional IT Cost ($$300/mo \times 36 \text{ mos}$) = \$10,800

<u>Hidden Expenses (\$500/mo x 36 mos) = \$18,000</u>

Total Investment = \$130,639

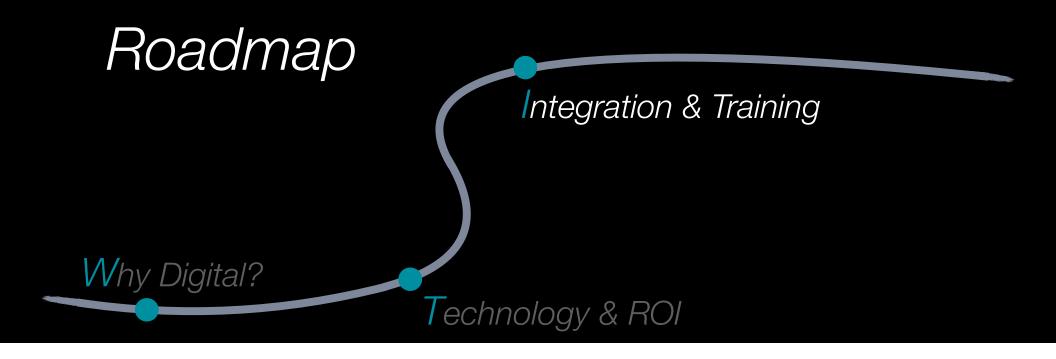
ncome & Savings

```
Two Crowns/Month
(2 @ $2000 x 36 mos) = $144,000
Supply Costs Savings
($500/month x 36 mos) = $ 18,000
Total Income & Savings = $162,000
Total Investment =-$130,639
```

Net Profit = \$31,361

Return on Investment

ROI = 24%



T Company

Network
Technology Consultant
Cyber Security
Back Up
Maintenance
HIPAA Compliance

Vendor
Install, Training, & Support

Integration & Training

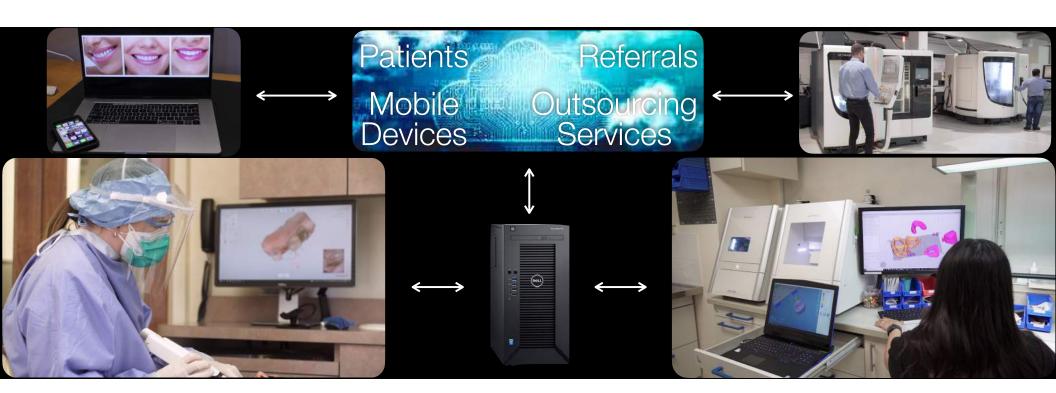
Lab/Outsourcing Services

Design, Planning, & Fabrication

Internal IT

Technology Manager
Troubleshooting
Staff Training



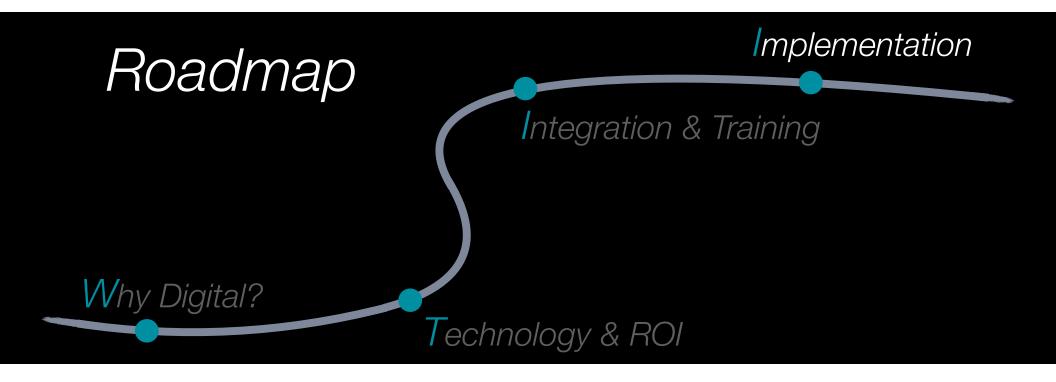


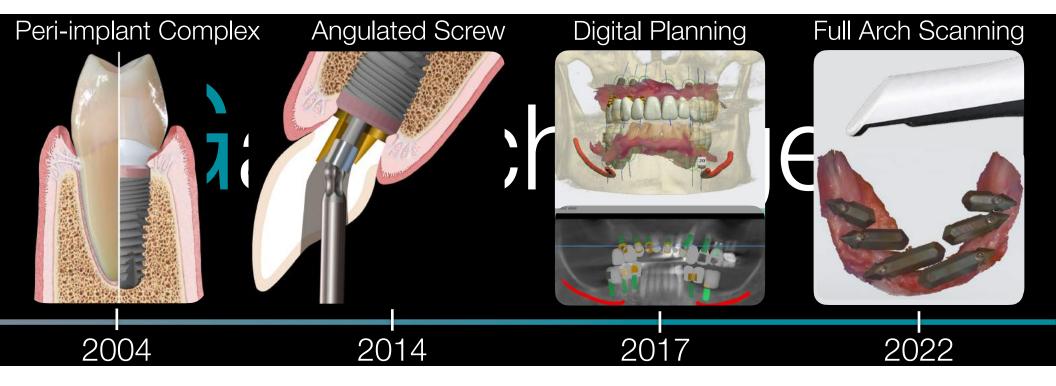
Digital Transformation

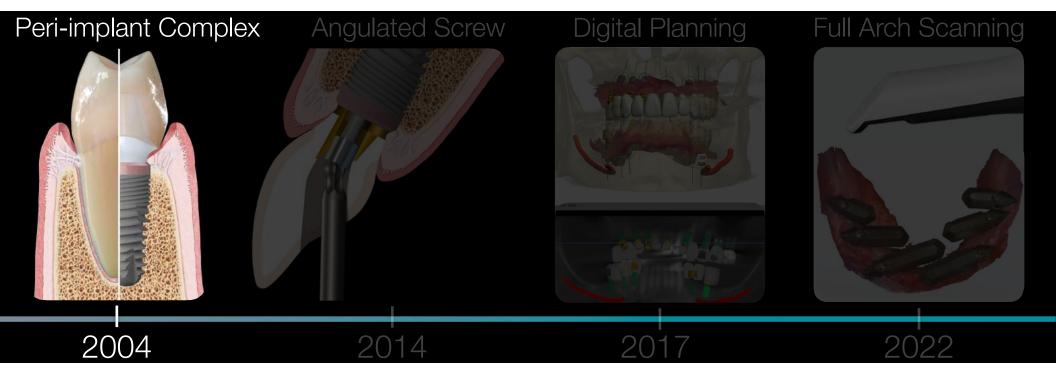


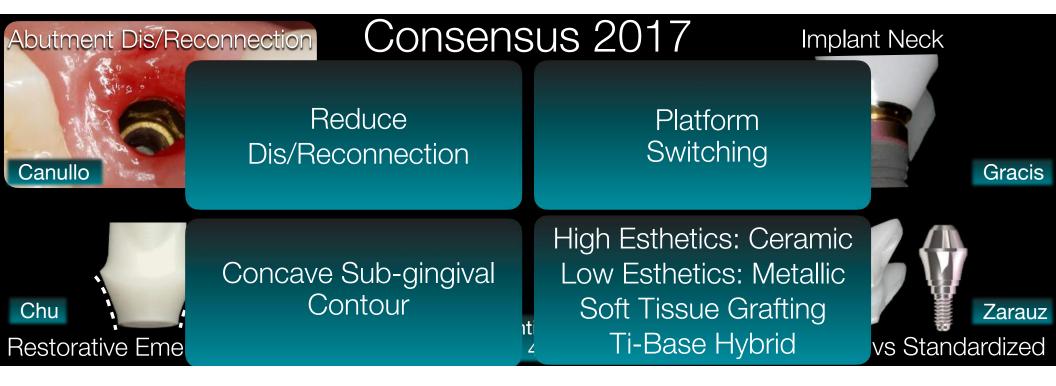
Advantages

- More Efficient Workflow
- Staff Delegation
- Expedited Lab Transfer
- Expanded Outsourcing

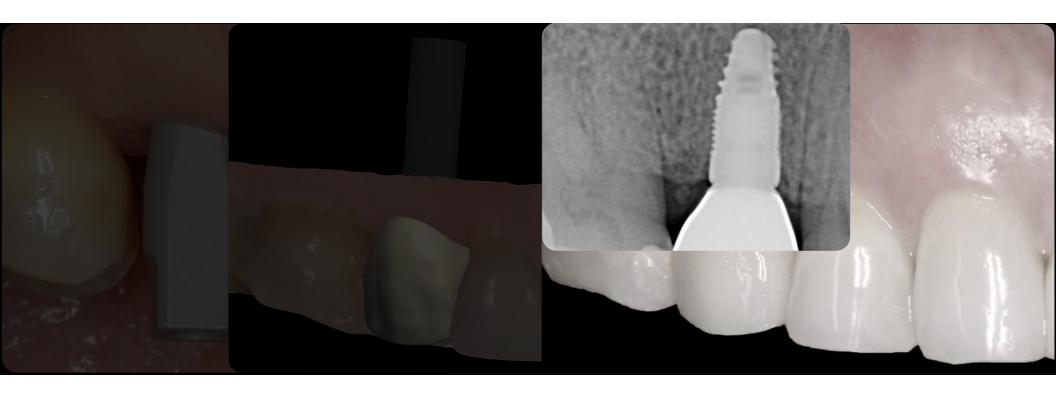


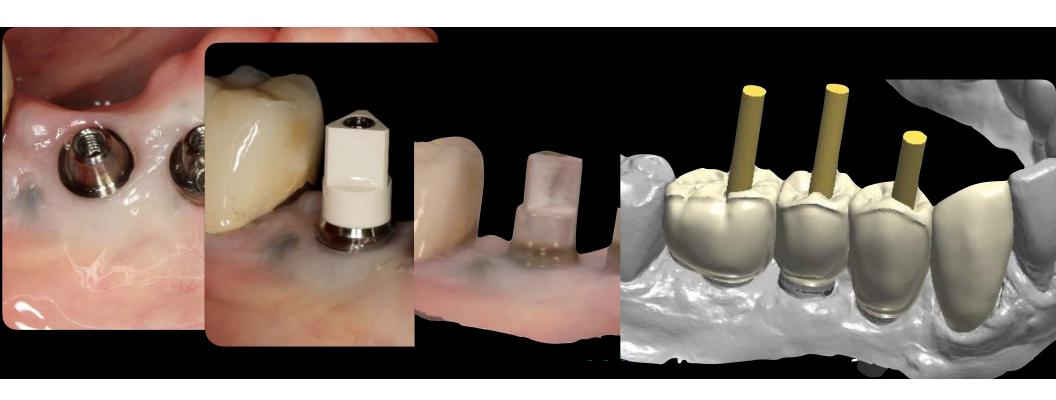






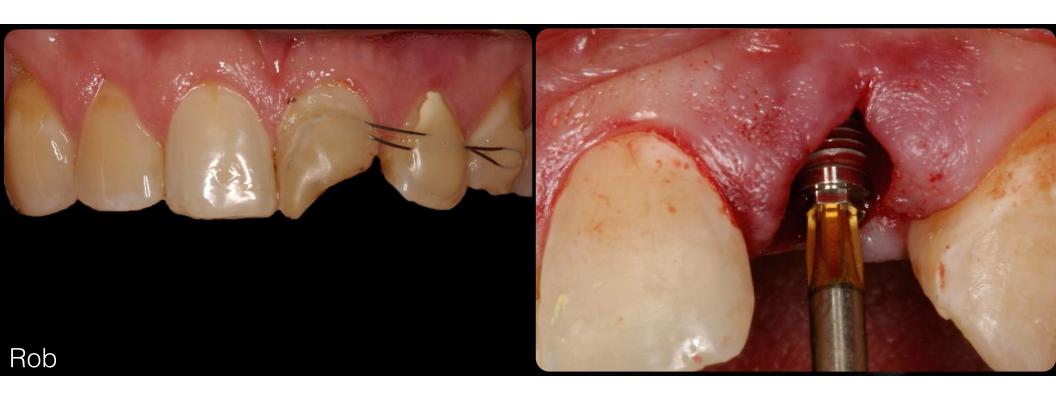










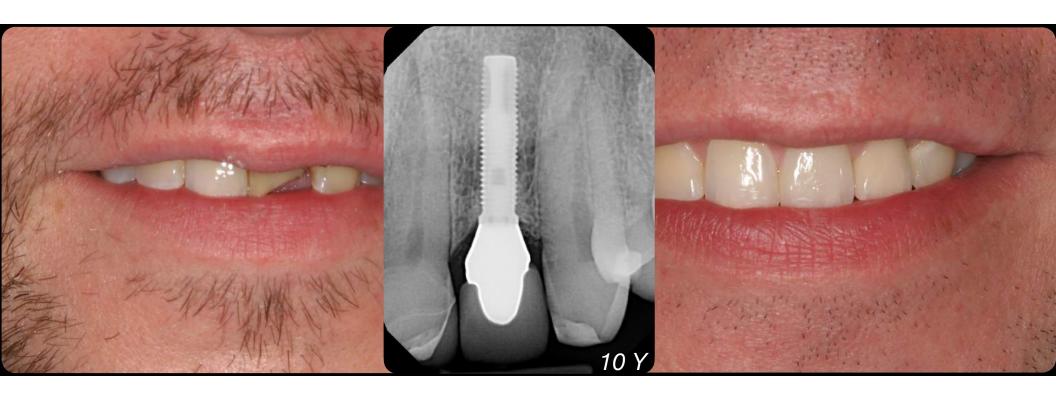


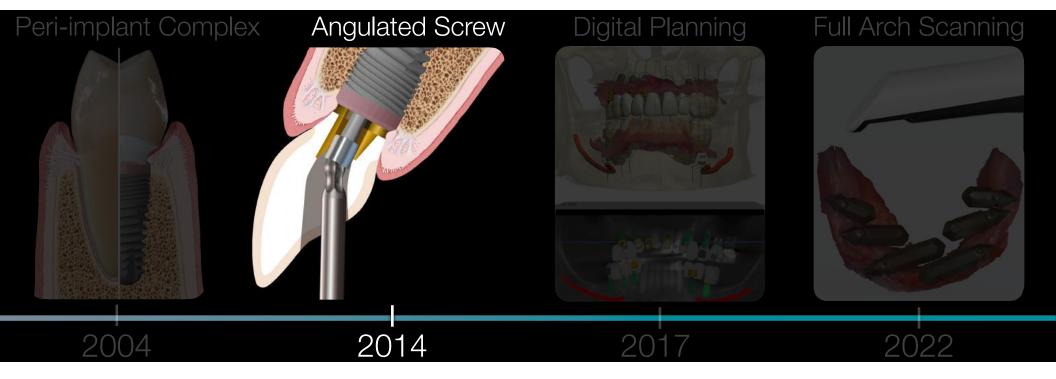


One Abutment One Time

Tallarico, **M**, et al. Definitive abutments placed at implant insertion and never removed: Is it an effective approach? A systematic review and meta-analysis of randomized controlled trials. J Oral Maxillofac Surg 2018;76:316-324.

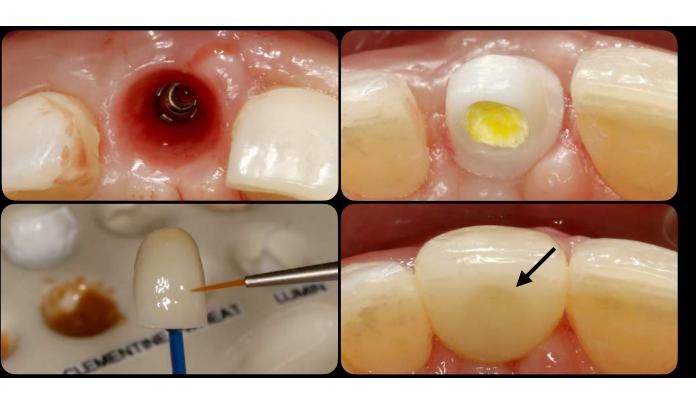






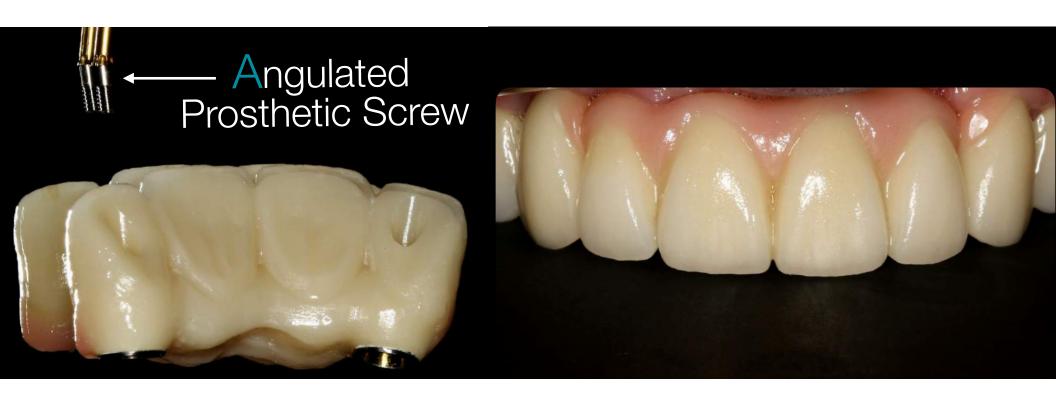


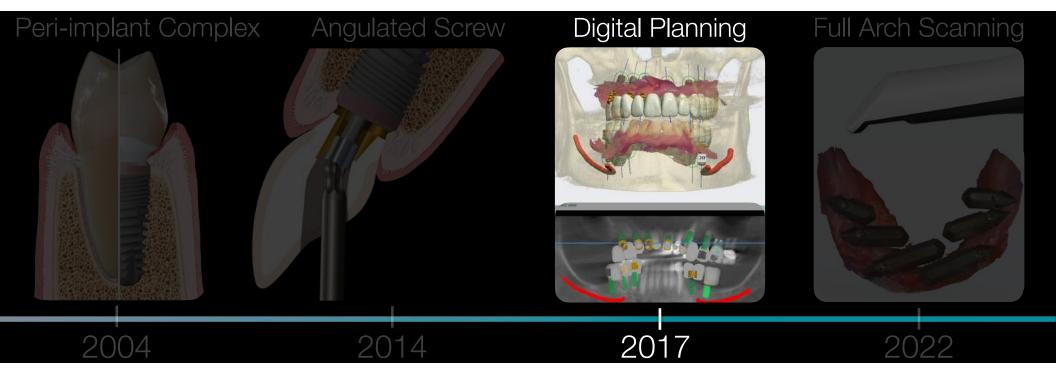




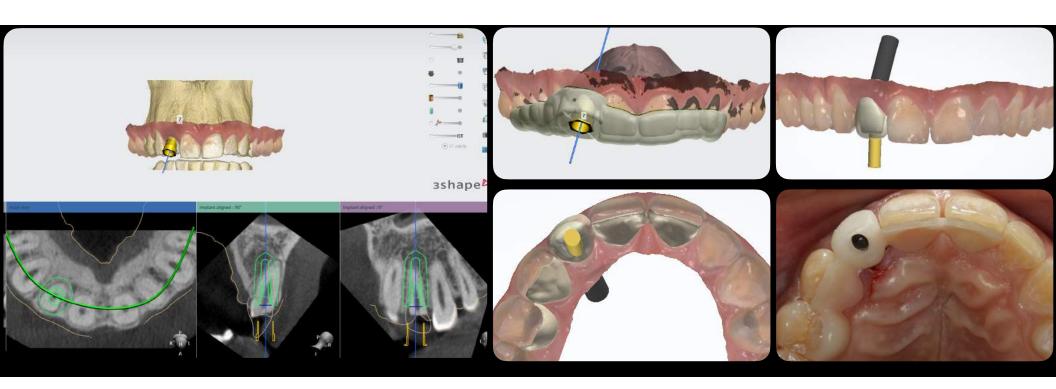
Advantages

- JDis/Reconnection
- Custom Shading
- Retrievability





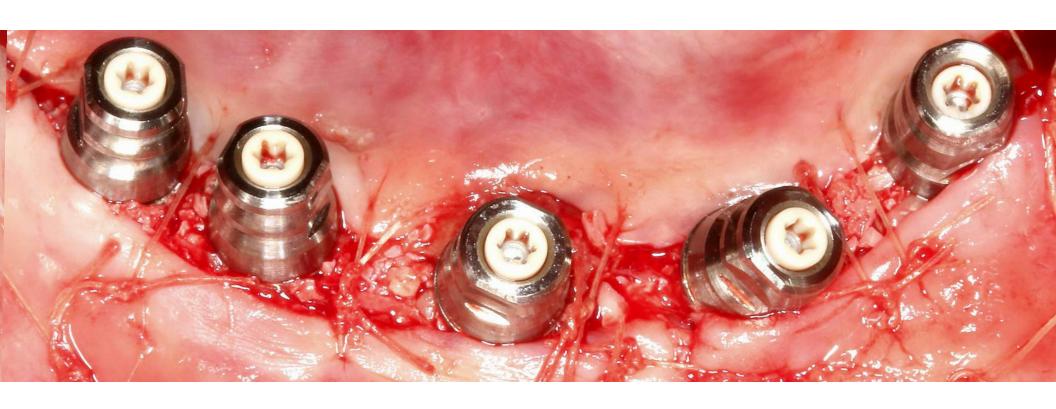




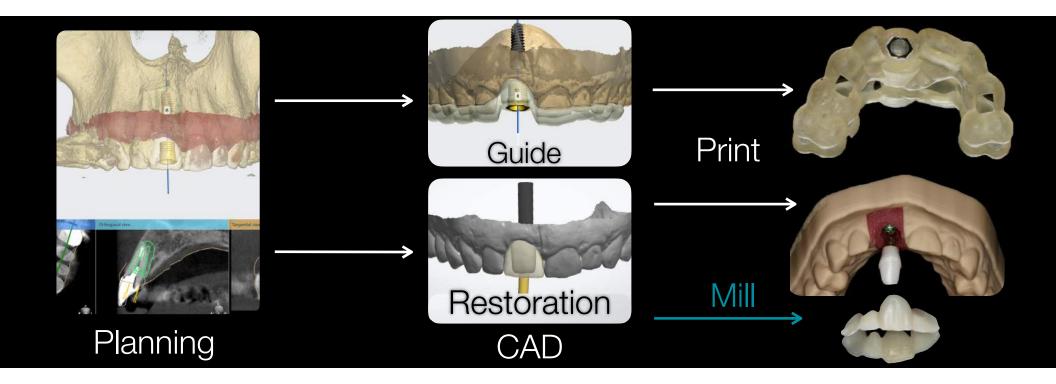








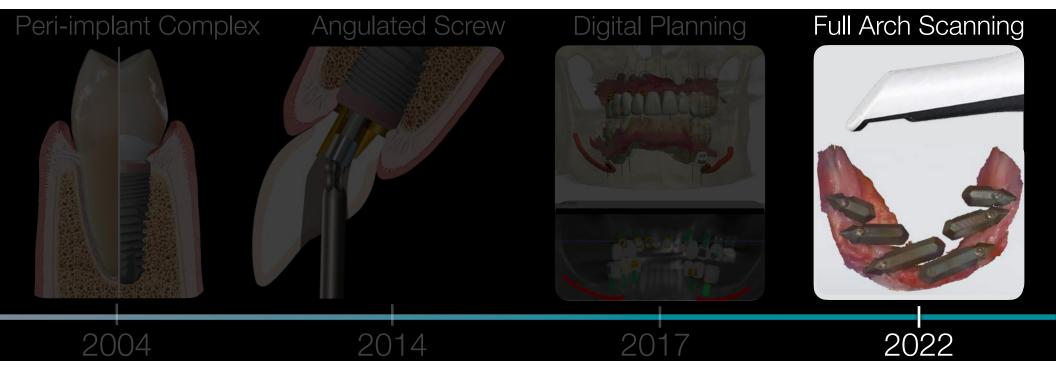




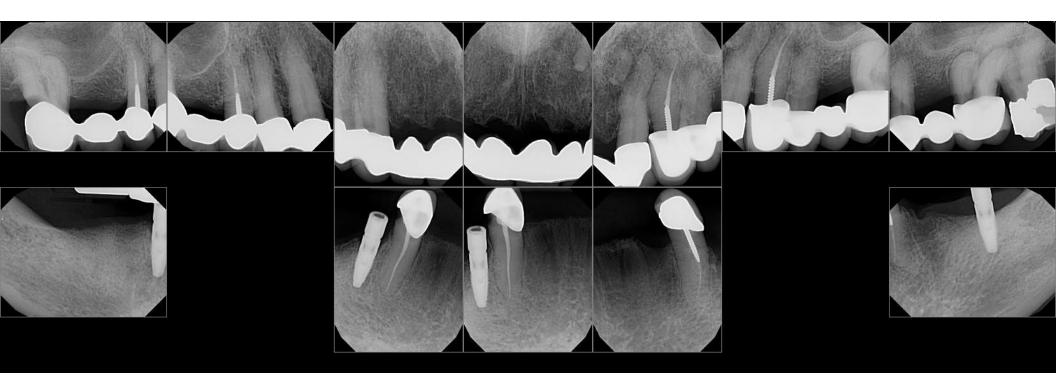


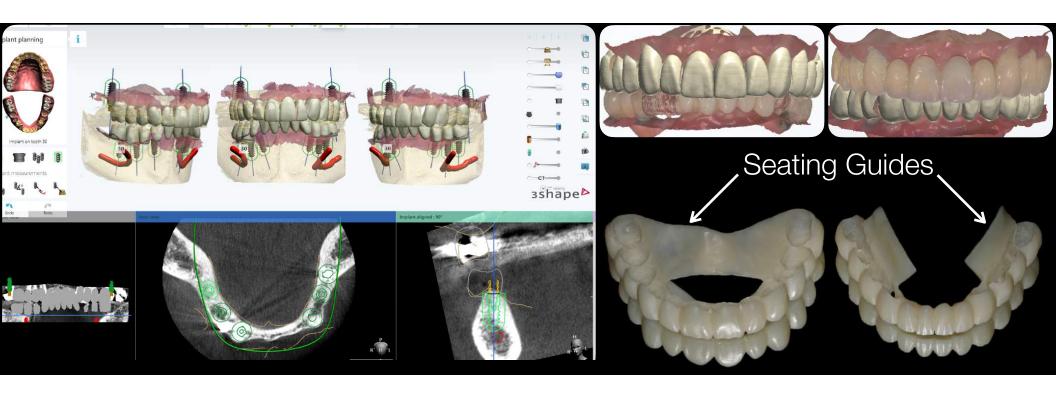




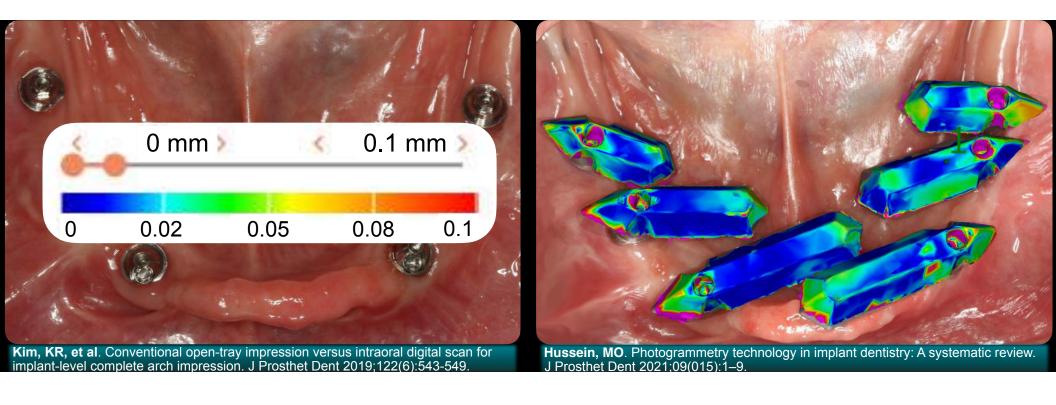






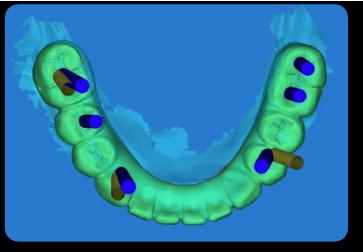








NEXUS iOS







Prosthetic STL Design

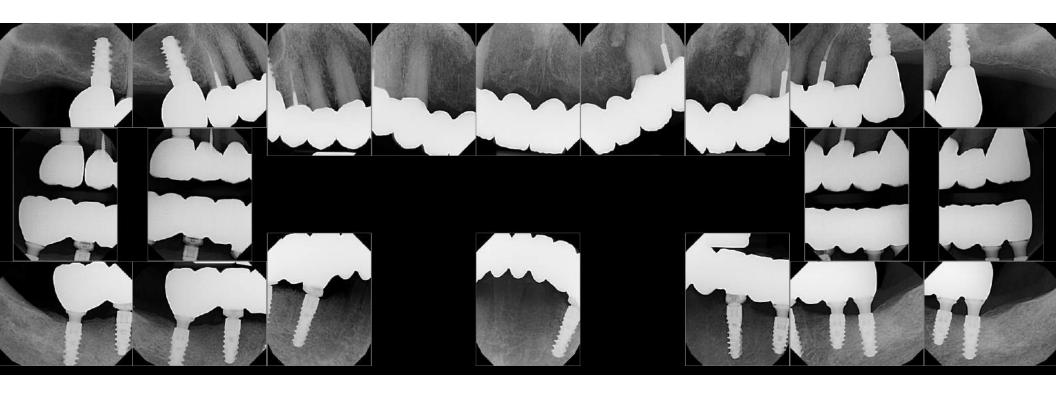
3D Printed

Try-in Prototype

Nexus IOS, Osteon Medical, Patent Pending







Take Home Messages

Steep digital learning curve

Develop a team approach & delegate tasks

Convert to digital incrementally

Thoroughly research & evaluate the technology prior to any commitment

