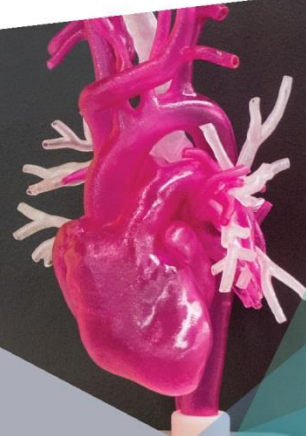
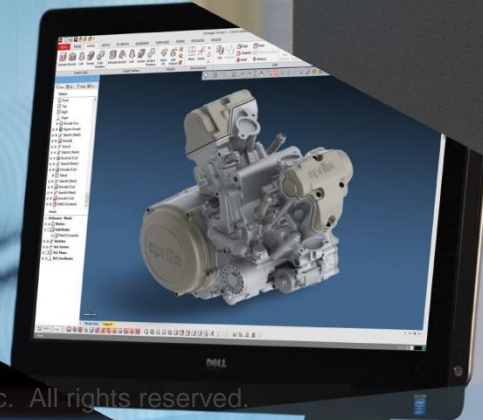




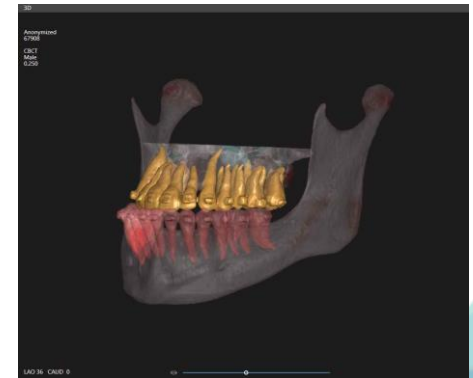
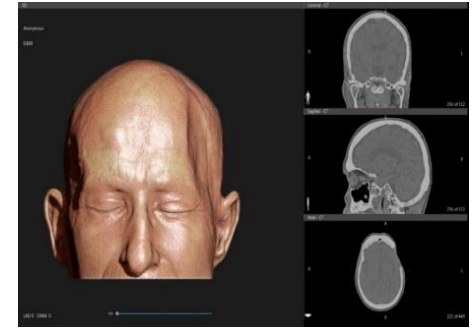
# D2P™ From DICOM-to-PRINT

July 2017



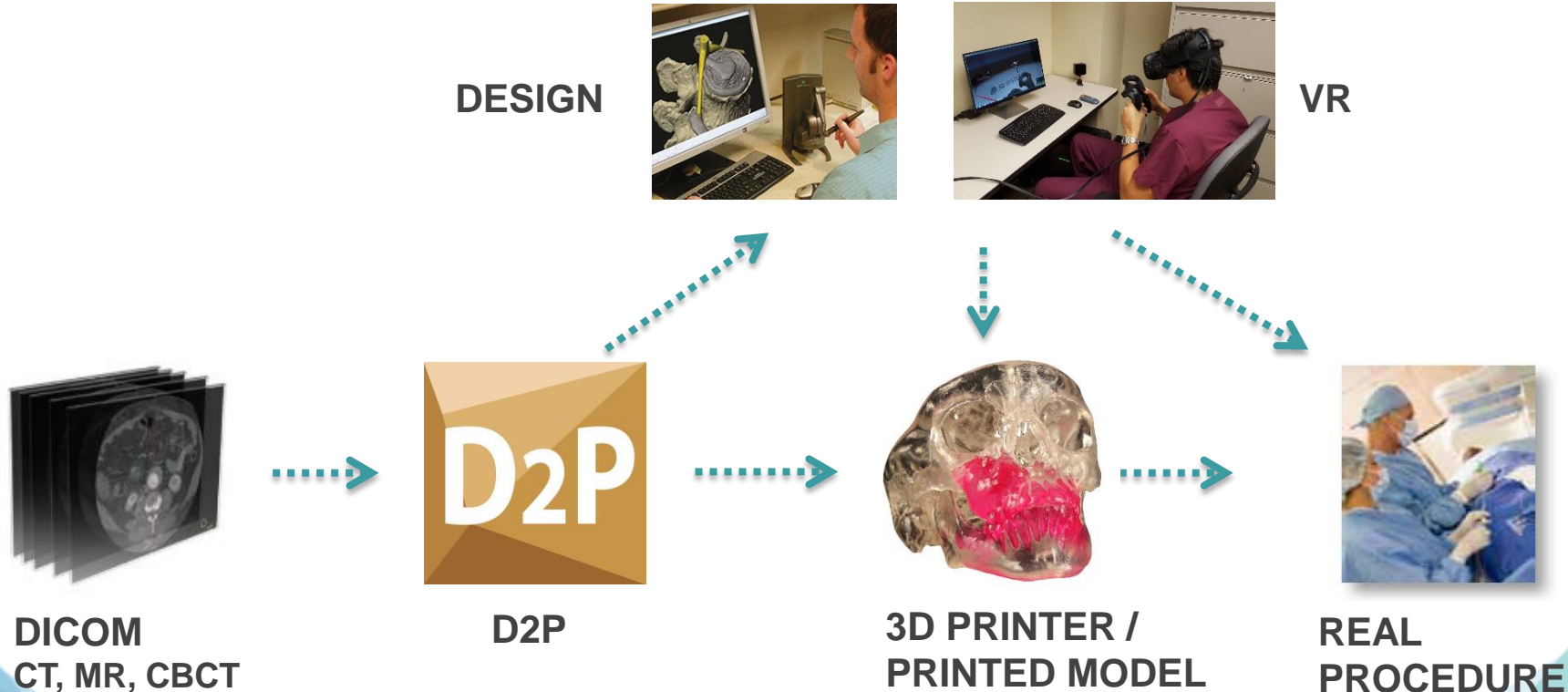
# D2P - 3D Systems Unique Position

- Easy to use, quick 3D visualization and model preparation for print aimed at meeting medical staff needs
- Modular software package designed to consolidate all preparation steps into one workstation
  - DICOM viewer and analysis
  - Automatic and manual segmentation tools
  - Editing tools
  - Seamless connection with 3D Systems products
    - Virtual Reality (VR)
    - Design (Freeform)
    - Printers and 3DSPRINT



# D2P in a Nutshell

THE ONLY COMPANY THAT OFFERS A COMPLETE CREATION SUITE



# Target Users

- Radiologists
- Physicians (non-radiologist)
  - Orthopedics, CMF surgeons, Vascular surgeons, Cardiac surgeons, Neuro int., etc.
- 3D printing labs, Service bureau
- Biomedical engineering schools
- Device manufacturers
- Imaging system OEMs
- PACS manufacturers



# End-to-End Solution Aimed at Medical Personnel

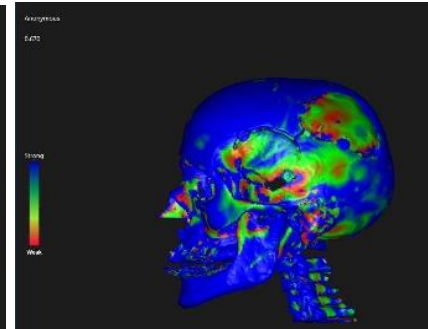
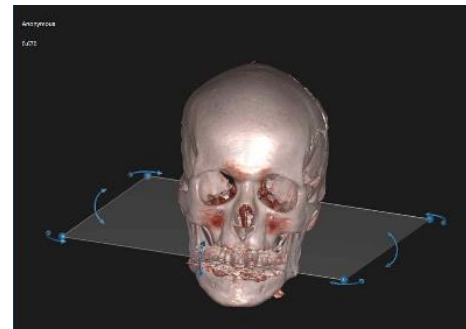
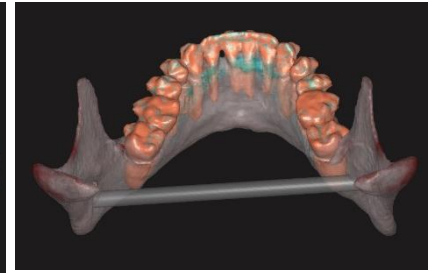
- Saves time and effort
  - Consolidates all 3D model creation steps into one workstation
  - Relies on unique automatic segmentation tools
  - Seamless integration with 3D Systems printers, VR and CAD software
- Supports various imaging modalities (CT, MR, CBCT)
- HD 3D image resolution
- Automatic model coloration
- Results overlay on patient images to ensure precision



# 3D Model Editing

**Smoothing** | **Thickening** | **Thinning** |  
**Trimming** | **Hollow** | **Shell** | **Coloring** |  
**Strength** | **Labeling**

- Simplified editing and design tools
- Complete freedom of model modification



# Virtual Reality (VR)

- Enhanced 3D model visualization
  - Improve procedure surgical planning
  - In-depth view and model manipulations not possible with existing solutions
  - Fly-through object internal parts
  - Allows for spatial inspection prior to printing or go to manufacturing
- Models are instantly transferred to VR space
- Supports VIVE and Oculus devices



# Clinical Value Proposition

- **Safety**
  - Reduces procedure time and patient exposure to risks
- **Technical**
  - End-to-End solution- quick & easy. No interim software
  - Simplifies and enhances procedure planning
  - Predicts and prevents complications
  - Increases confidence in real procedure
  - VR- ultimate model visualization, Instant result, enhance model manipulation capabilities
- **Communication**
  - Enhances Intra-staff collaboration
  - Convenient platform for patient consent
- **Financial- OR and bed times**
  - Fewer complications
  - Fewer readmissions





# D2P Benefits

- **One creation suite** covering all model preparation steps
- **No need for interim software** otherwise required
- Ideal for **preoperative surgical planning** and patient consent
- Create **3D model in minutes** using automatic segmentation tools
- Supports **various imaging modalities** (CT, MR, CBCT)
- **Increase precision** with results overlaying patient's images
- Intuitive **editing tools** including auto model coloration
- **Instant transfer** of 3D files to various applications such as Printers and VR
- **VR- Enhanced 3D visualization** and **complete freedom** of model manipulation
- Supports various 3D printing standard **file formats**.
- **Easy** control and management of data
- **3D printing know-how** is inherent in the design of the software

# Q&A

- **What makes D2P different than other segmentation products?**
  - It **consolidates all steps** of digital model preparations for printing into one workstation
    - Segmentation- **no need for slice by slice painting**
    - Embeds **unique** 3D model editing tools
    - Instant files **transfer to 3D Printer, CAD or VR** environment
  - Allows for **in-depth 3D visualization** and ultimate model control with VR devices
  - Supports **export of colored 3D model file format** to be printed with 3DS unique Colorjet technology.
  - **No interim** 3<sup>rd</sup> party software is required
  - It relies on **auto segmentation tools** which may **significantly reduce the time and labor** associated with 3D model creation

# Q&A

- **What makes 3D systems different than other companies?**
  - **3D printing know-how** - As manufacturers of 3D printers the company knows how to create the ideal input for best 3D print outcome
  - A **complete creation suit** no other company has alike
- **Can D2P work with all printers?**
  - **Yes!**
  - If connected to 3D Systems printer it may **save transfer time and lose of data**

# Q&A

- **Is D2P IP protected?**
  - Yes
- **Is D2P limited to specific 3D file format?**
  - No, D2P support varies standard formats such as STL, OBJ, PLY
- **What imaging modalities are supported?**
  - CT, MR and CBCT
- **Does D2P has regulatory clearances?**
  - D2P has FDA 510K clearance and CE mark