syngo.CT Dental allows for the creation of panoramic range series and paraxial range series of the jaw – the mandible and maxilla – as an aid in the planning of dental implant surgery, mandibular cosmetic surgery, or facial trauma reconstruction.

1. From the **Patient Worklist**, load an appropriate data set into the CT Dental Workflow:
   - If the examination has been correctly mapped, double click to load
   - If manual mapping is required, right-click the examination and select Open With > CT Dental

2. Adjust the dental range and the orientation of the reference plane. Angle the green reference lines parallel to the mandible or the maxilla, and extend the range (outermost lines) to include anatomy of interest.

3. In the panoramic reference segment, define the center line, which will be used as a base to define ranges of panoramic and paraxial result images. Click to set the start point. You can scroll using the mouse wheel and click consecutive points in multiple images to define the centerline. Double-click to finish. Note also the lingual marker, which is represented by a yellow + and indicates the lingual (tongue) side of the centerline. Drag it to reposition if necessary.
4. After defining the center line, **panoramic result images** are calculated according to the current parameters in the range parameter panel. White **panoramic** lines on the panoramic reference image define the results images, which are displayed in the results segment. Number of images, distance between images, and image thickness can be customized in the parameter panel.

5. After defining the center line, **paraxial result images** are calculated according to the current parameters in the range parameter panel. White **paraxial** lines on the panoramic reference image define the results images, which are displayed in the results segment and by default are distributed equidistantly. The start and end points of the paraxial range and other parameters can be customized in the paraxial images tab.
6. For presurgical dental implant planning, you can mark the mandibular canal using both the panoramic and paraxial result images. Note that only markers that have been defined and accepted on the paraxial result images (right-click on red marker) will be saved.

7. Panoramic and paraxial ranges and result images can be saved separately or together and can be printed in true size to a connected printer.