# slicerPano (sP)

* XML UI layout providing 5 views (overrides current 3D Slicer UI layout when add-on is launched)
  + Anatomical Transverse Plane
    - Default to 3D slicer
  + Path Transverse (not anatomic transverse plane)
    - Follows the selected defined open curve path and renders the DICOM voxels and 3D model slice cross-section that is normal in position to the curve with tangent orientation
  + Tangential
    - Same as Path Transverse slice widget but with the ability to rotate about the axial line (normal to transverse anatomical plane) at the current path position.
  + Free View
    - Same as tangential but it has an additional degree of rotational freedom about the selected curve path’s tangent line.
* View widgets are attached to add-on’s slider’s within the panel UI for control.
* Add-on UI Panel
  + “Path” Collapsible Button
    - Input Volume Drop-down / Select Volume Button
      * When multiple DICOM volumes are loaded, the user can choose which is the active volume to be displayed in the views.
    - Input Curve Drown-down / Select/Update Curve Button
      * The user can select which open curve is used for the path projection.
  + “Slice Controls” Collapsible Button
    - Transverse slider attached to Path Transverse view - value range calculated based on open curve total length
    - Tangential slider attached to the Tangential view - value range 0 - 360 degrees
  + “Free View Controls” Collapsible Button
    - Tangential Angle slider attached to Free View slice widget and controls the rotation as described in “Tangential” XML UI element
    - Axial Angle slider attached to Free View slice widget and controls the rotation about the open curve’s tangent line at location origin