PANORAMA is developing solutions for applications in healthcare, broadcasting systems and security & surveillance, all of which face similar challenging issues in the real time handling and processing of large volumes of image data:

- A large increase in amount of data that needs to be processed
- An increase in the complexity of image processing and image analysis algorithms
- Tight real time requirements for image based control systems
- Representation of "holistic" image data

**Healthcare**
- Smart X-ray systems, less user interaction
- Real-time depth imaging
- Objective metrics for evaluating and optimizing image quality

**Broadcasting**
- New cameras for UHDTV
- Automatic color matching, less user interaction
- Stereoscopic imaging

**Security and Surveillance**
- Multi camera person tracker, less user interaction
- Single gantry vehicle tracker and ALPR
- Smart UHD surveillance cameras (5 & 12Mp)
Healthcare

- IQ-metrics and X-ray detectability maps
- Limited angle tomosynthesis

Broadcasting

- Automatic color matching between cameras
- Stereoscopic imaging

Security

- Smart and ultra sensitive surveillance camera
- Person tracking & 3D room reconstruction