Information Technologies

Mission: Develop and deploy an IT infrastructure to permit data, information and software sharing to support validation of NTR imaging platforms and methods, and for the translation to clinical trials. This will include DICOM and caBIG prototype data formats, DICOM application hosting (plug-in interface), XIP image analysis applications, and implementation of a test grid linking all network sites.

Center Needs	Core deliverables
Data management **System integration**	**Extend DICOM to support NTR data types** • **Visible, SPECT, ultrasound, etc** • **Include image mosaicing** **Define NTR required DICOM small animal imaging formats**
Focus on methods to use caBIG to utmost potential. **Justification for use of imaging tools such as XIP**	**Adopt DICOM WG 23 application hosting (plug-in interface for software applications)** • **XIP extension to launch Matlab applications** • **XIP development environment** **Applications to support multi-modal image registration**
Cross-NTR information coordination	**Web communication support** **Training programs to explain available IT tools**