

Scanner Room

Control Room

MRI Scanner

ECG Electrodes

Defibrillator
Electrodes

Pulse Oxymetry

Respiration
Sensor

MRI
Imaging Coils

Ablation
Catheter

Lasso
Catheter

CS
Catheter

Catheter
Display

MRI
Display

EAM
Display

ECG/EG
Display

Catheter
Display

MRI
Display

EAM
Display

ECG/EG
Display

RF
Generator

Defibrillator

Aim #1

Real Time MRI
Acquisition

Image
Processing

Aim #2

Electrogram
Acquisition
& Processing

Electro
Anatomical
Mapping

Aim #3

Motion
Compensation

Aim #4

System Integration