Increase Quality and Quantity of Specimens/Samples

- Follow best practices
- System generated unique ID / bar code
- 2-D bar codes insure accuracy
- Process methods create entries for Aliquots/ Sample/ Derivatives

Annotate Specimen

- Merge subject data and specimen data
- History
- Physical exam
- Questionnaires
- Events
- Lab results / assays
- Diagnosis
- Problem lists
- Specimen collection Scan bar code to verify subject/specimen
- Receive Specimen in Lab Scan bar code to verify subject/specimen

Produce Wish Lists

- Filter Data / Use Rules Engine
  - History
  - Physical exam
  - Questionnaires
  - Events
  - Lab results / assays
  - Diagnosis
  - Problem lists
- Wizards guide creation of wish list

Leading Edge Technology

- Interfaces
  - HL7 interfaces
    - Demographics
    - Allergies
    - Clinical Data
  - CRIS interfaces
  - Lab results
  - Biomedical device data
- System Platform
  - Oracle database
  - Citrix server / Windows or Mac
  - Web-enabled
- Architecture
  - Object oriented technology
  - Three tier design
  - Data warehouse
- Investigator defined criteria
- Migrate manual / inefficient processes to best practices
  - From manual / spreadsheet logs to computerized inventory
  - From manual written labels to bar codes
  - From manual searches that take days /weeks to searches based on rules that takes minutes
  - From browsing freezers to browsing in computer
  - From single user system to multi-user system
  - From error prone process to fail safe verifiable process – computerized audits
  - From poorly documented specimens to standardized annotation