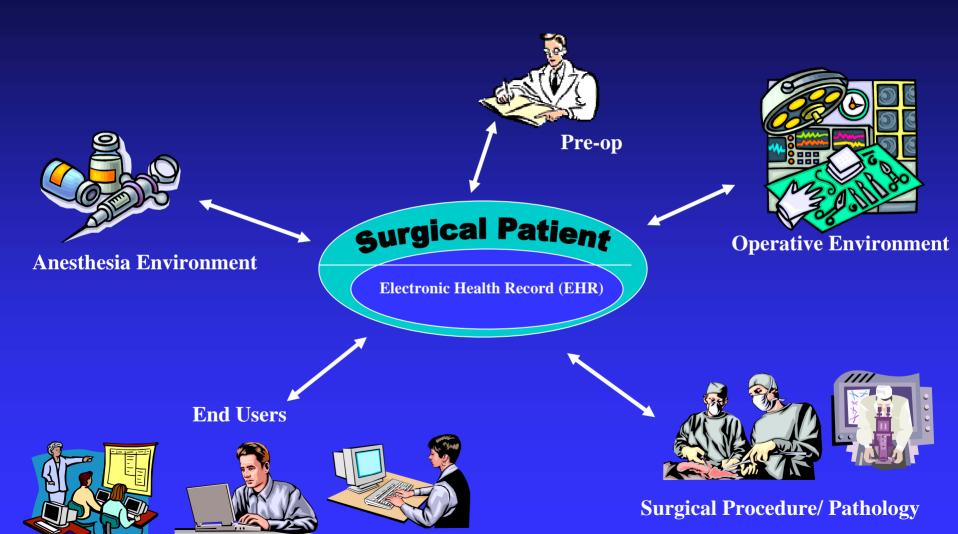
Research activity at Medical Informatics and Technology Application Consortium

Azhar Rafiq, MD EMBA
Ronald C. Merrell, MD, FACS
NASA Research Partnership Center
Department of Surgery
Virginia Commonwealth University





Conversion of operating room into an information matrix



Analysis

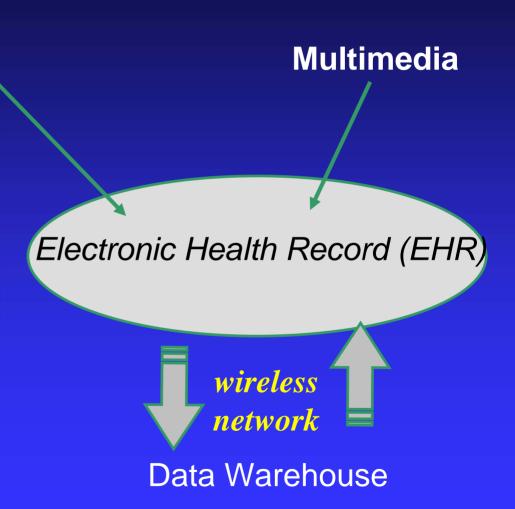
Collaboration

Education

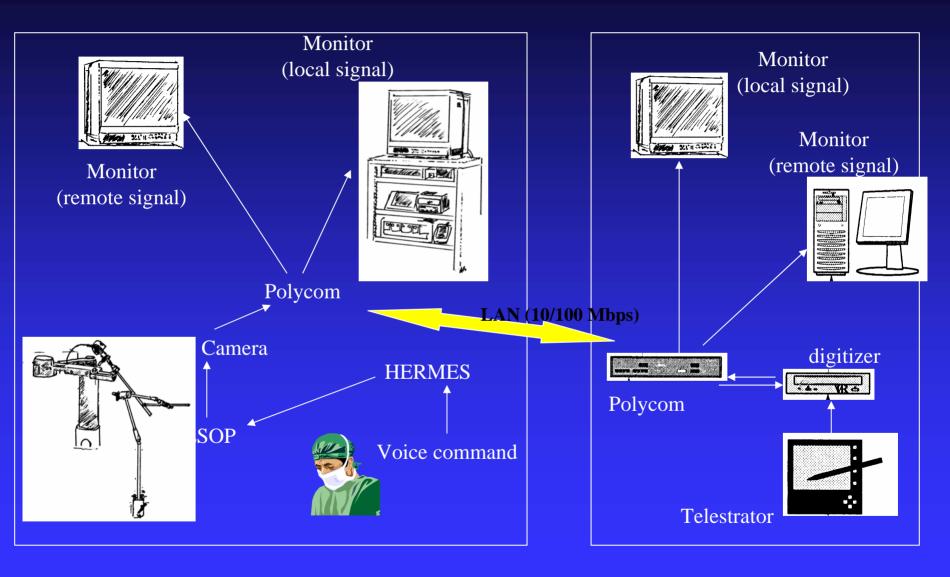
Dense data capture and processing with facilitated interaction

Sensors -

- Heart Rate
- Respiratory rate
- Oxygen saturation
- Co2 levels
- Peripheral blood flow
- Medications

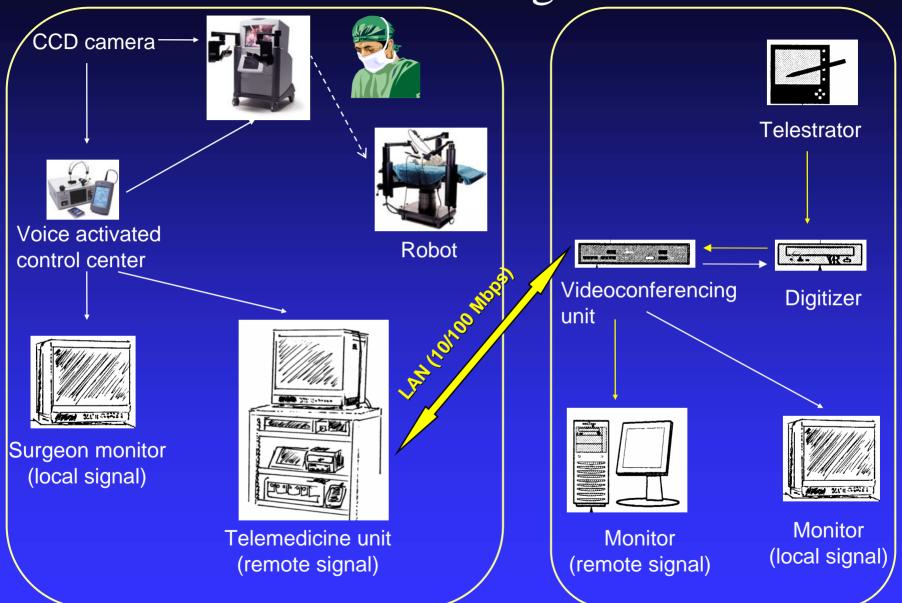


Synchronous collaboration



Remote Location

Telementoring



Operating Room

Remote Location

Virtual Reality Coach

