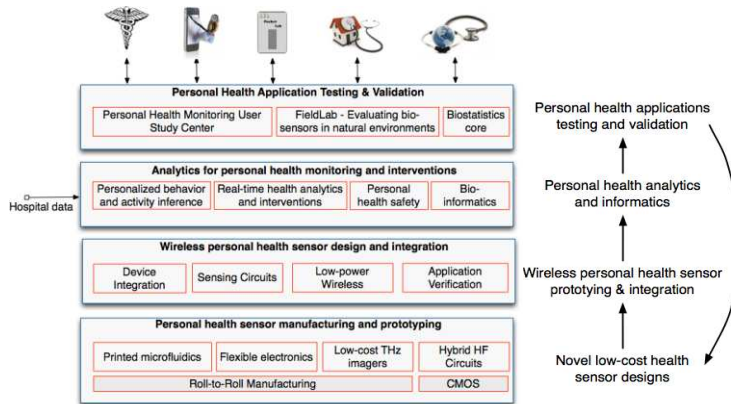


UMass Amherst Initiative for Personalized Health Monitoring and Biometric Sensors Utilizes CHM Process Platforms



- The Commonwealth of Massachusetts has earmarked \$ 90,000,000 in capital funds for life sciences research in Western Massachusetts
- The University of Massachusetts Amherst is proposing an integrated \$46,000,000 Center for Personal Health Monitoring (CPHM)

Home Health Monitoring Prevention and Intervention

Personal Health Monitoring

Vital signs and medical information Are measured and reported to local wireless hub

- Respiration, ECG
- Lab-on-a-Chip Measures drug levels, biomarkers
- PPG, blood pressure, vascular performance
- 3-axis accelerometer Measures activity, falls

Real Time Medical Tracking

Medical Information is continuously monitored

Health Care Providers
Medical professionals can monitor in-home patients in real time



First Responders

Automatic notification In event of emergency



The CPHM will include the \$25,000,000 Center for Advanced Roll-to-Roll Manufacturing for the Life and Nano Sciences, an open access facility that will deploy leading edge technology and pilot tools for sensor systems, packaging and associated flexible electronics platforms and enhance University - Industry partnerships. This Center is built upon and has been enabled by advances in the CHM.