**Enabling Technologies:**
- Cellular network/Mobile Devices
  - geolocation, passive sensors, antennae
- Elastic Cloud Computing
- IoT
- Big Data and Artificial Intelligence
- Augmented Reality

**Complementary efforts:**
- Incorporate additional sensors (wearables)
- Remote control of devices (ventilators/IV Pumps)
- Automated logistics/supply
- Automating devices/systems
- Device interoperability (plug and play)
- EHR Integration
- Robotic procedural support

**NATIONAL EMERGENCY TELECRITICAL CARE NETWORK**

**Tiered Staffing with Remote TCC Support**

**Phase I: Local Support**
- CC Trained Virtual-Physician
- Virtual RT
- CC Trained Virtual-Nurse
- Pharmacist, other subspecialty trained clinicians

**Ratio of Trained Clinicians to Patients**
- 1:60
- 1:30

**Phase II: Wide-Local Support**
- Tele-Critical Care (TCC) Team
- 1:120
- 1:60

**Phase III: Regional Support**
- TCC Team
- 1:10-30
- 1:1:60?
- 1:1:120?

**Phase IV: Inter-Regional Support**
- VIRTUAL WARDS

**Cohort of individual patients at their homes**
- Large Containment Areas (e.g., The Superdome)

**VIRTUAL WARDS**

**ICU Beds Map**

- Hospitals with ICU beds
- Hospitals without ICU beds
- No Hospitals

*APPs (Advanced Practice Providers: PAs, NPs, CRNAs etc.) – some are CC Trained and some are Non-CC Trained.