

Practice in 21st Century will be shaped by

Dramatic changes which are being driven by the convergence of modern technologies such as:

- **Computer Development**
 1. **Processing speed**
 2. **Storage capacity**
 3. **Features**

- **Electronic signal processing**
 1. **Miniaturization of components**
 2. **Sensors and detectors**
 3. **Manipulation of voltages and currents**
 4. **Indirect measurements**

- **Real time positioning systems**
 1. **GPS**
 2. **Inertial**
 3. **Other**

- **Definition and adoption of the Global Spatial Data Model**
 1. **Umbrella organization of spatial data**
 2. **Simpler and easier to use than existing models**
 3. **Accommodates**
 - **New digital measurement systems**
 - **Existing 2-dimensional models**
 - **Local user perspective of 3-D digital data**
 4. **Provides consistent procedures for spatial data accuracy**