Definitions

Health Monitoring

- Measurement of operating and loading environment and critical responses of a system to track and evaluate incidents, anomalies, damage, deterioration...

DESIGN- CONSTRUCTION-OPERATION- DAMAGE-AGING

LIFE

FABRICATION
ERECITION
CONSTRUCTION

INTEGRATED
OPERATIONAL & MAINTENANCE
MANAGEMENT

ASSESS
HEALTH

REPAIR & RETROFIT
DESIGN AND MONITORING

EVENT-BASED
STEPWISE
MONITORING

CONTINUOUS
MONITORING

CONTROLLED TESTS
CIS Health Monitoring: Promise

- Enable **new** materials, processes, systems
- Diagnose **deterioration** mechanisms and detect **damage**
- Capture **cause/history** of distress as opposed to just observing symptoms
- Track and validate **effectiveness** of maintenance, repair & retrofit
- Complement and improve **security monitoring**
- Emergency **management**