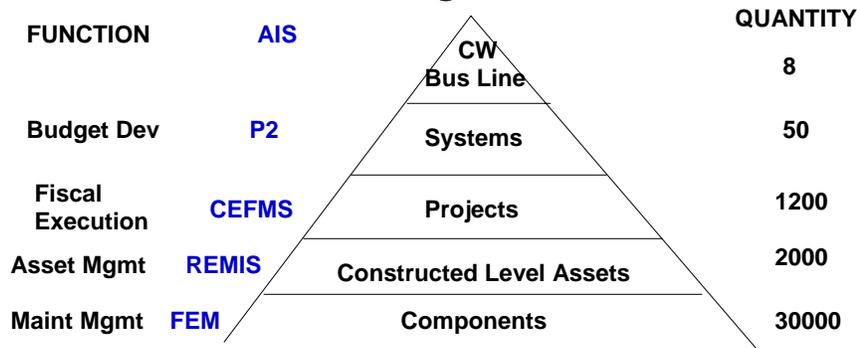


## Sustainable Infrastructure - Navigation



### GOALS

- The Right Business Practice: Life Cycle Mgmt (LCM) - Corps Strategic Goal 3c
- The Right size inventory: Mission critical asset focus - Executive Order 13327
- The Right Performance: Common reliability standards - BPI-PART
- The Right Investments: Informed risk-based budget decisions- Five Year Development Plans (FYDP)

STATUS: OMB Assessment: STATUS: YELLOW; PROGRESS: GREEN

## Asset Management

- REMIS Real Estate Management Info System
- FRPI Federal Real Property Inventory
  - All Federal Agencies
  - 24 data elements
  - Corps: \_\_\_\_\_ real property items
  - Product: Facility Condition Index
- Constructed level assets: Nav Locks
- STATUS: OMB assessment Yellow/Green

## FEM as an Essential Tool for Life-Cycle Infrastructure (Asset) Management

- O&M Work management
- Spare parts and inventory management
- Data repository of/for equipment and O&M standards, practices and accomplishment, augmented by data warehouse
- Analysis tool for predictive and reliability centered maintenance in life cycle mode
- Facility/Equipment Cost summary from receipt to disposal
- Key Performance Indicators, Leading and Lagging
- Decision assistance tool for asset recapitalization

## FEM Use in Maintenance and Reliability Engineering

- Discovery of the cause of failures
- Evaluating preventative maintenance action effectiveness
- Developing PdM techniques/procedures
- Performing condition monitoring/equipment testing
- Employing engineering techniques to extend equipment life
  - Specifications for new/rebuilt equipment for reliability and minimizing O&M burden
  - Precision rebuild and installation
  - Failed part analysis
  - Root cause failure analysis
  - Reliability Engineering
  - Rebuild verification
  - Age exploration
  - Recurrence control

## CW Systems

- ASA(CW) FY09 Budget Guidance
- FY08 21 Regions too few
- Corps projects – too many
- Use Inland Waterway designated systems and establish systems for coastal ports and harbors

## Asset Management

- FEM (Facilities and Equipment Maintenance)
- Complete deployment in \_\_\_\_ 2008
- NWD                      POD
- MVD                      SPD
- LRD                      NAD
- SWD                      SAD
- Reliability component to be developed