The Vision of Better Information Management
Introduction to WMATA (METRO)

• Created in 1967 by the Interstate Compact; began rail operations 1976
• Multi-jurisdictional - DC, MD, VA, US
• Service area ~ 1,500 square miles
• Rail, Bus and Paratransit modes
• Approximately 1,000,000 trips daily
Introduction to WMATA (METRO)

- Over $40 billion in assets (excluding land)
  - Over 400,000 identified assets
  - Nearly 10,000 employees
  - 291 miles of track
  - 1,824 buses
  - 1,236 rail cars
  - 618 escalators
  - 318 elevators
WMATA (METRO) Context

• Dedicated Capital Funding – 1st time ever
• $25 billion need estimated for SGR and new service requests
• $1.5 billion in capital expenditures per year
• Over 600 projects submitted for program funding
• Safety and Compliance drivers

"Without Data You’re Just Another Person With An Opinion"

W. Edwards Deming
Information Management?
Historical Processes Perspective

Do or Die
TIME FOR A RENAISSANCE?

Leonardo, anyone?
INFORMATION OVERLOAD?
INFORMATION SINGULARITY?

1984 (not the novel...)
STANDARD PROCESS FLOW

CONCEPT/NEED
PROGRAMMING
PRELIM DESIGN
DESIGN DEVELOPMENT
CONSTRUCTION DOCUMENTS
CLOSEOUT
OPERATION/MAINTENANCE
DECOMMISSION
BETTER INFORMATION EXAMPLE
Current Information Rich Processes

- Enterprise Asset Management (EAM)
- Building Information Modeling (BIM)
- Geospatial Information System (GIS)
- Enterprise Resource Planning (ERP)
- Business Performance Management (BPM)
- Life-cycle Cost Analysis (LCA)
- Total Cost of Ownership (TCO)
- Business Suite Applications
- … and?
VISIONARY PROCESS FLOW

CONCEPT/NEED

PROGRAMMING

PRELIM DESIGN

DESIGN DEV.

CON DOCS

CLOSEOUT

OPERATION

MAINTENANCE

DECOMMISSION
INFORMATION & EXCHANGES

• Building Information Modeling (BIM)
• Geospatial Information System (GIS)
• COBie
• LiDAR
• CMMS
• AMS
• Business Suite Applications
• … and?
IT’S THE PEOPLE
NOT THE TECHNOLOGY

• Questions?