

## Organization, Personnel and Technology

Item #7a

**Subject:** Information Technology Strategic Plan

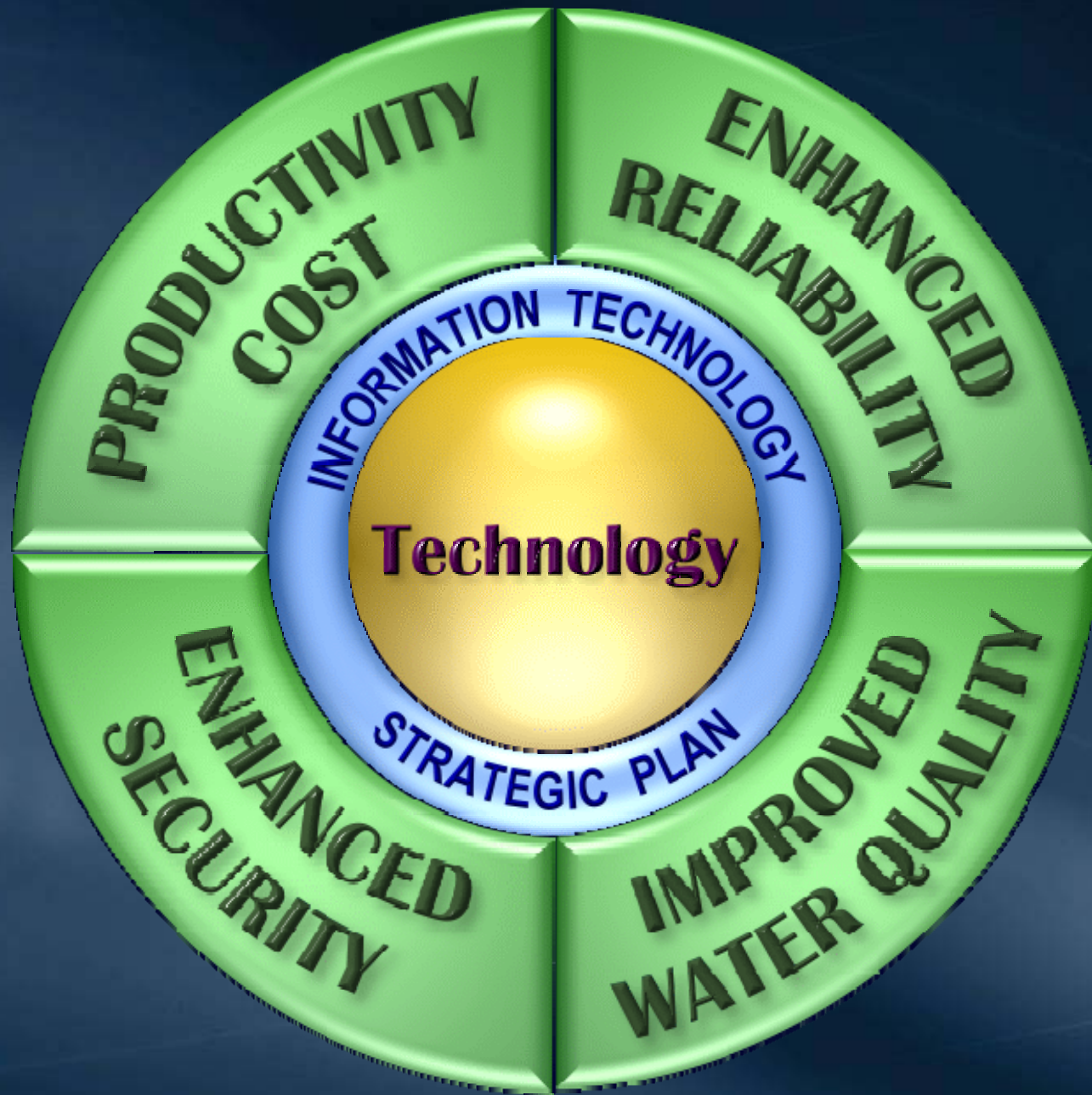
**Purpose:** Provide a quarterly update on progress to implement Metropolitan's Information Technology Strategic Plan and information technology activities in general for the period ending September 2011.

# IT Strategic Plan Update – Quarterly Report for Period Ending September 2011

Organization, Personnel and Technology

Item # 7a

February 13, 2012



# Key Highlights

- Conducted final acceptance for the Water Quality Monitoring and Rapid Event Detection System
- Completed upgrades of Windows Vista to strengthen security
- Completed requirements and system definition for the new Lease Management System
- Completed requirements, system definition, and vendor selection for the new Environmental and Safety Management Information System
- Conducted IT disaster recovery exercise for recovery of critical water quality application (Labsheet) and testing of “fail-over” capabilities

# PMI Distinguished Project Award

- Fleet asset tracking and utilization
- Vehicle maintenance and regulatory compliance
- Electronic capture of fuel dispensing information and vehicle condition
- Fuel inventory controls



real-time



more  
mobile



digital  
age



multiple  
devices



tech  
savvy



fast  
paced



# OUR CHANGING WORLD

# Digital Information Age

- Videos
- Pictures & Graphics
- Water Quality / Compliance data
- e-mails
- e-Discovery
- Design Specifications / Drawings
- Business Documents

# Disk Storage Space Terms

1 Kilobyte (KB) 1000 Bytes

1 Megabyte (MB)  $1 \times 10^6$  Bytes

1 Gigabyte (GB)  $1 \times 10^9$  Bytes

Today 

1 Terabyte (TB)  $1 \times 10^{12}$  Bytes

1 Petabyte (PB)  $1 \times 10^{15}$  Bytes

1 Exabyte (EB)  $1 \times 10^{18}$  Bytes

1 Zettabyte (ZB)  $1 \times 10^{21}$  Bytes

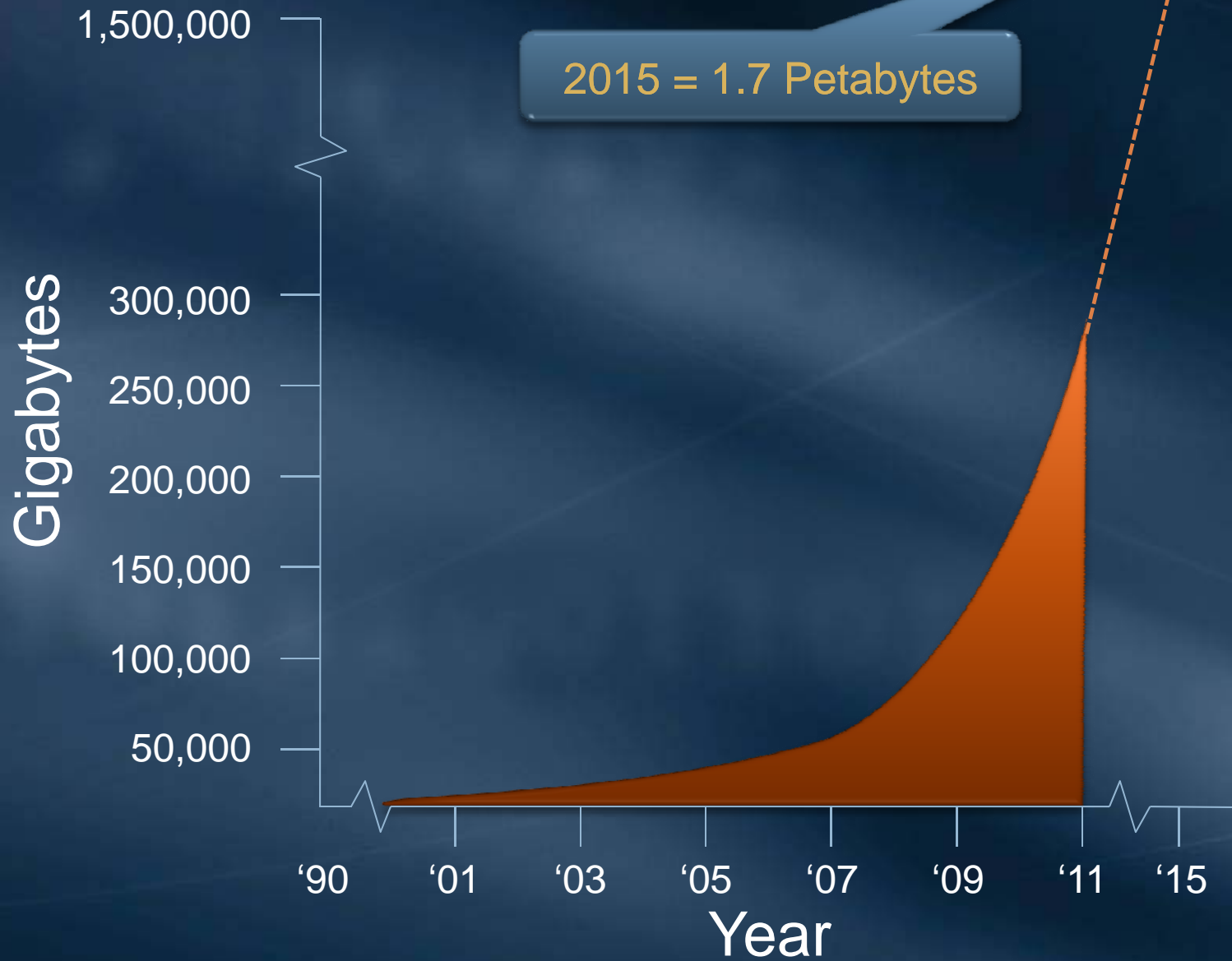
1 Yottabyte (YB)  $1 \times 10^{24}$  Bytes

1 Bronobyte (BB)  $1 \times 10^{27}$  Bytes

1 Geobyte  $1 \times 10^{30}$  Bytes



# Data Increase in Gigabytes



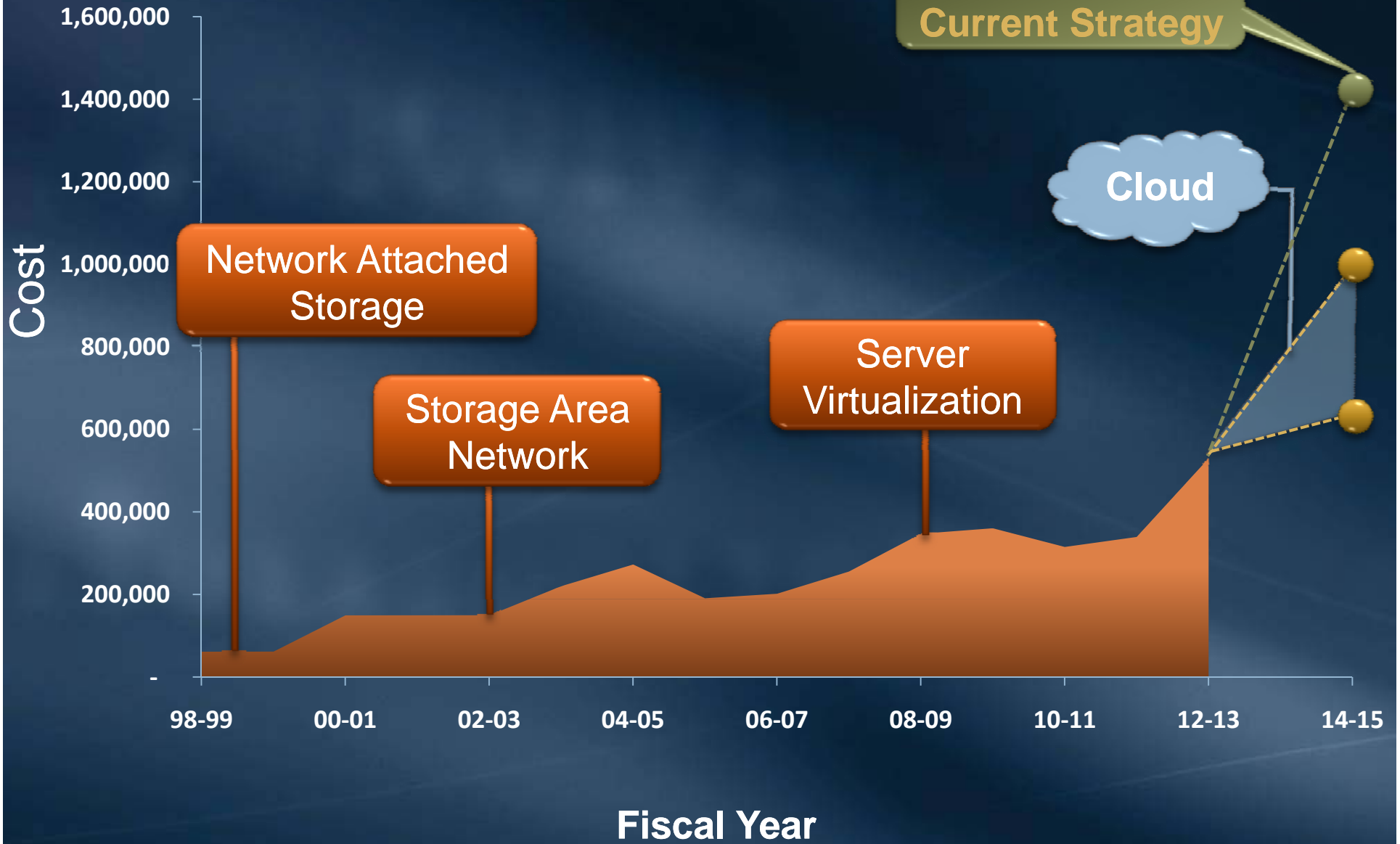
# Data Strategies

- Network attached storage (NAS)
- Storage area network (SAN)
- Virtualization
- Cloud

**Mobile  
Applications**



# Storage Cost



# Why go to the Cloud?

- Economy of scale
- 24 x 7 access to information
- Drive to mobile technology
- Applications / Functions

# Impact to Metropolitan?

- Rapid / Increasing data storage
- Movement towards cloud
- Strategy to reduce cost
- Adoption of iPhone type applications
- Skills / Support (newer technology)

# Upcoming Milestones

- Conduct migration of emails to a central storage area as a part of the e-Discovery project
- Complete 100% final design as a part of the IT Infrastructure wide-area-network microwave upgrade
- Conduct selection for a specialized SCADA Cyber Security consultant
- Begin design phase for the Environmental and Safety Management Information System
- Initiate planning for PC Upgrade