

# The "New You" Inventory It, Map It and Manage It

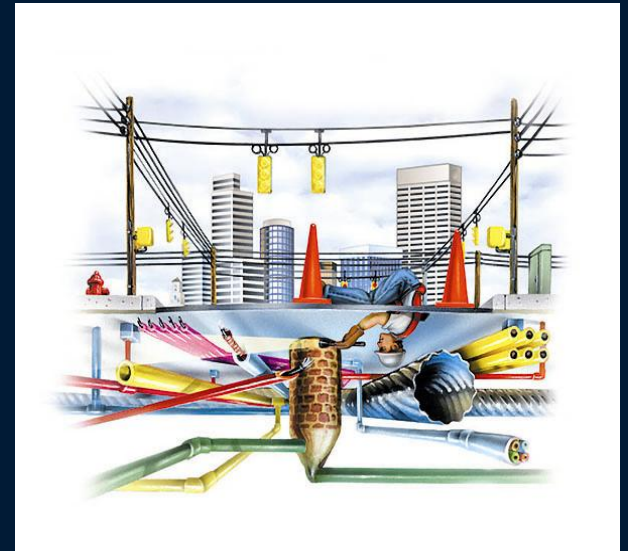
*SUE, GIS and EAM Combine into a Powerful Result*



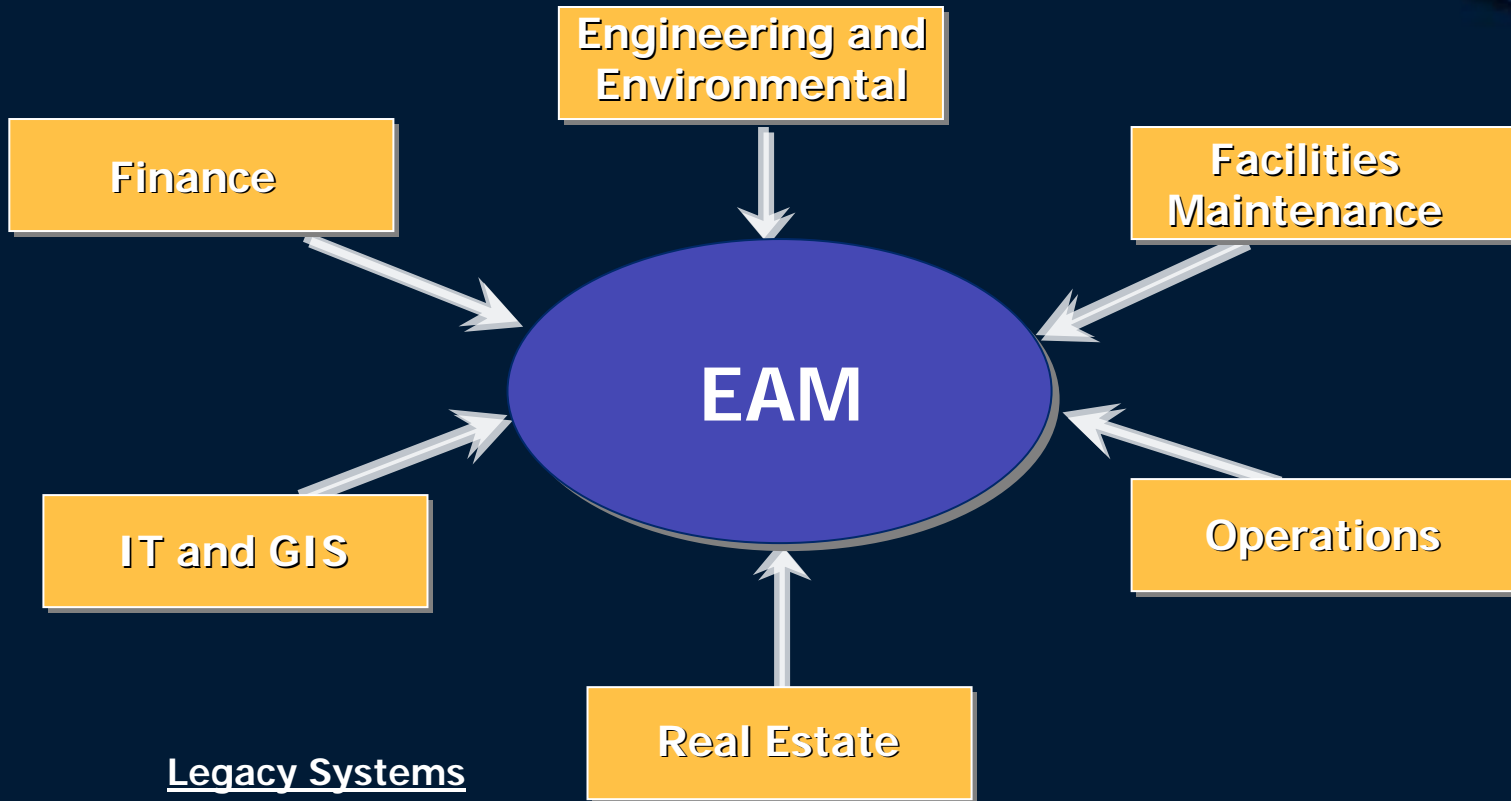
January 12, 2006

# Issues

- Emergency Preparedness
- Emergency Response
- Security
- Facilities Maintenance
- Regulatory Compliance



# Situation



## Legacy Systems

- HR
- CAD
- CIS

## Data Collection & Conversion

- Scrubbing & Migrating

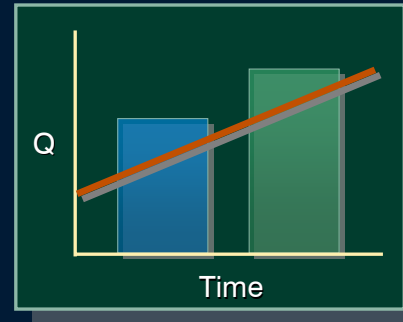
# Understanding Your Needs



Master Planning

Asset Name	Location	Category	Value	Age	Condition	Notes
Van Speed Inflow Pump #1	...	...	...	...	...	...
Mechanical Structure #1	...	...	...	...	...	...
...	...	...	...	...	...	...
<b>Total</b>			<b>\$1,100,000</b>			

Asset Inventory



Prioritize Projects/Timing

Category	Item	Q1	Q2	Q3	Q4	...
TOTALS	...	...	...	...	...	...
	...	...	...	...	...	...
	...	...	...	...	...	...
	...	...	...	...	...	...

CIP and Cash Flow Analysis

LEVEL OF SERVICE GOALS

- 1. Maintain system reliability...
- 2. Minimize system downtime...
- 3. Ensure system performance...
- 4. Maintain system safety...
- 5. Minimize system costs...

Level of Service Goals



Condition Assessment



# The Problem



**Unreliable Asset  
Information**



**TBE**  
GROUP



**TBE**  
GROUP



**TBE**  
GROUP



# Inventory It



# Inventory It

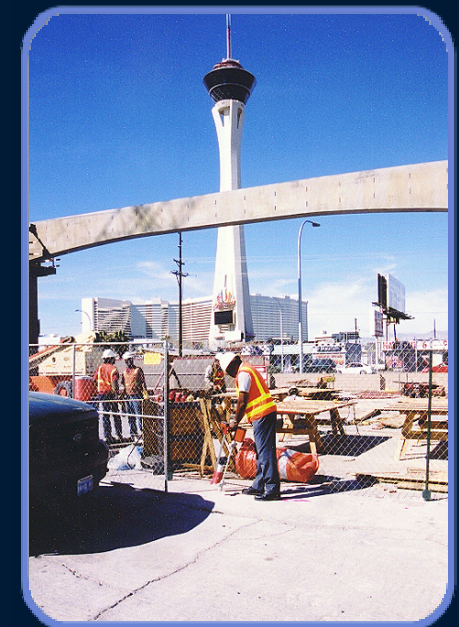
## Subsurface Utility Engineering

*A sub-discipline of Civil Engineering that combines technologies and design methodologies to deal with the problems of underground utilities on civil, environmental, and other related construction projects*

# What is SUE?

## Designation

Using geophysical prospecting techniques to determine the existence and horizontal position of underground utilities.



# What is SUE?

## Locating

Using non-destructive digging equipment, such as vacuum excavation, at critical points along a subsurface utility's path to determine the precise horizontal and vertical position of the underground utility line, to plan for proper protection, eliminate potential damage to underground utilities during construction and avoid unnecessary relocations.



# What is SUE?

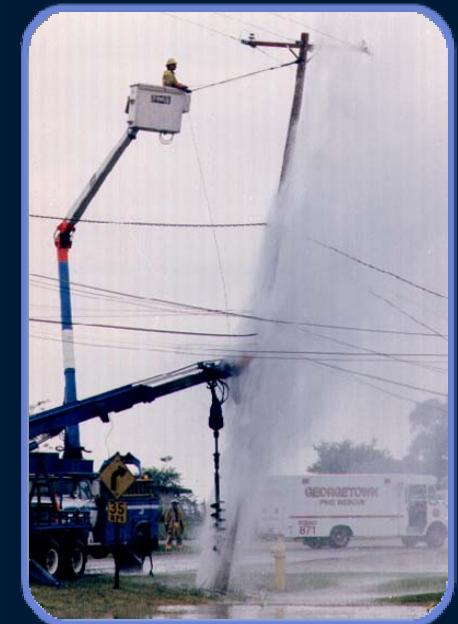
## Data Management

Surveying utility information obtained by designating and locating and entering it into the geographic information system (GIS), which allows designers to examine project options and plan ahead to eliminate utility conflicts.



# Why Use SUE?

- Accurate Underground Inventory
- Make Informed Design Decisions
- Improved Maintenance and Operations
- Safety and Security
- Avoid Costly Conflicts and Relocations
- Cost-Effective



# Map It

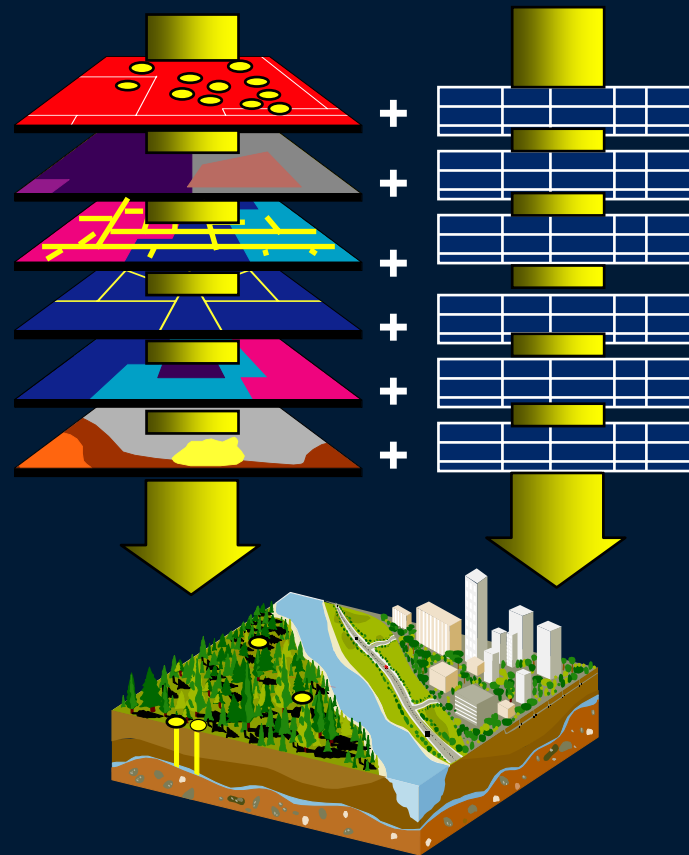


# What is GIS?

## *Geographic Information Systems*

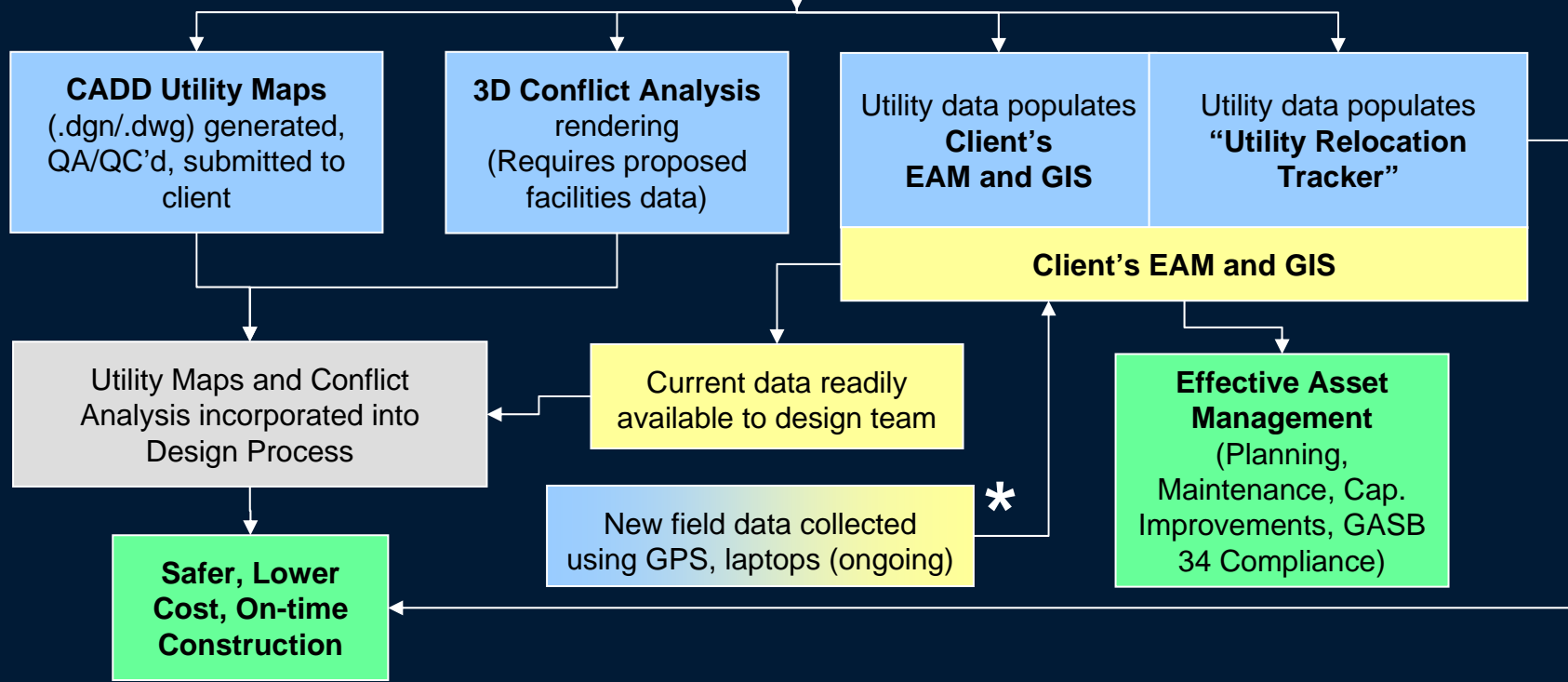
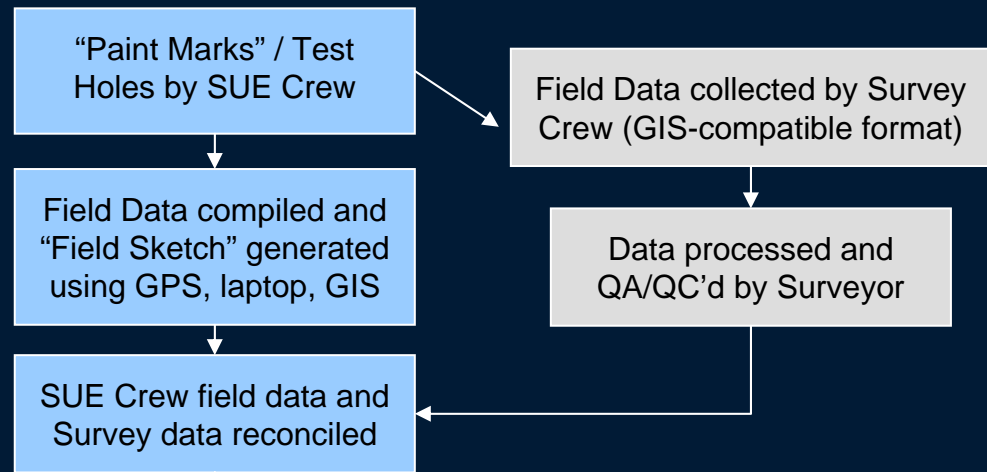
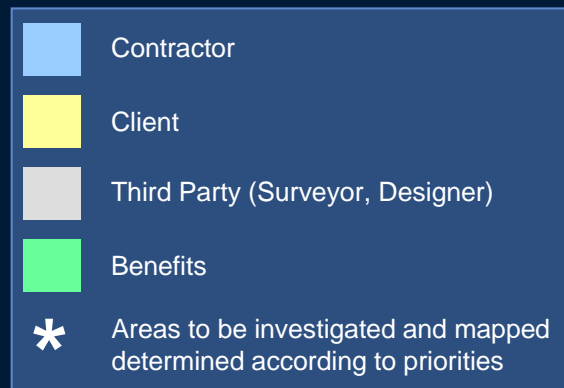
Maps + Databases = Digital Model of the Earth

- Real Estate
- Streets
- Railways
- Utility Lines
- Waterways
- Buildings
- Wharfs
- *etc...*

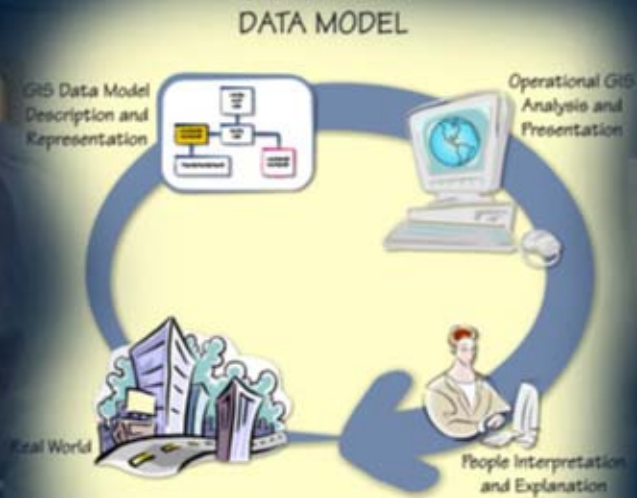




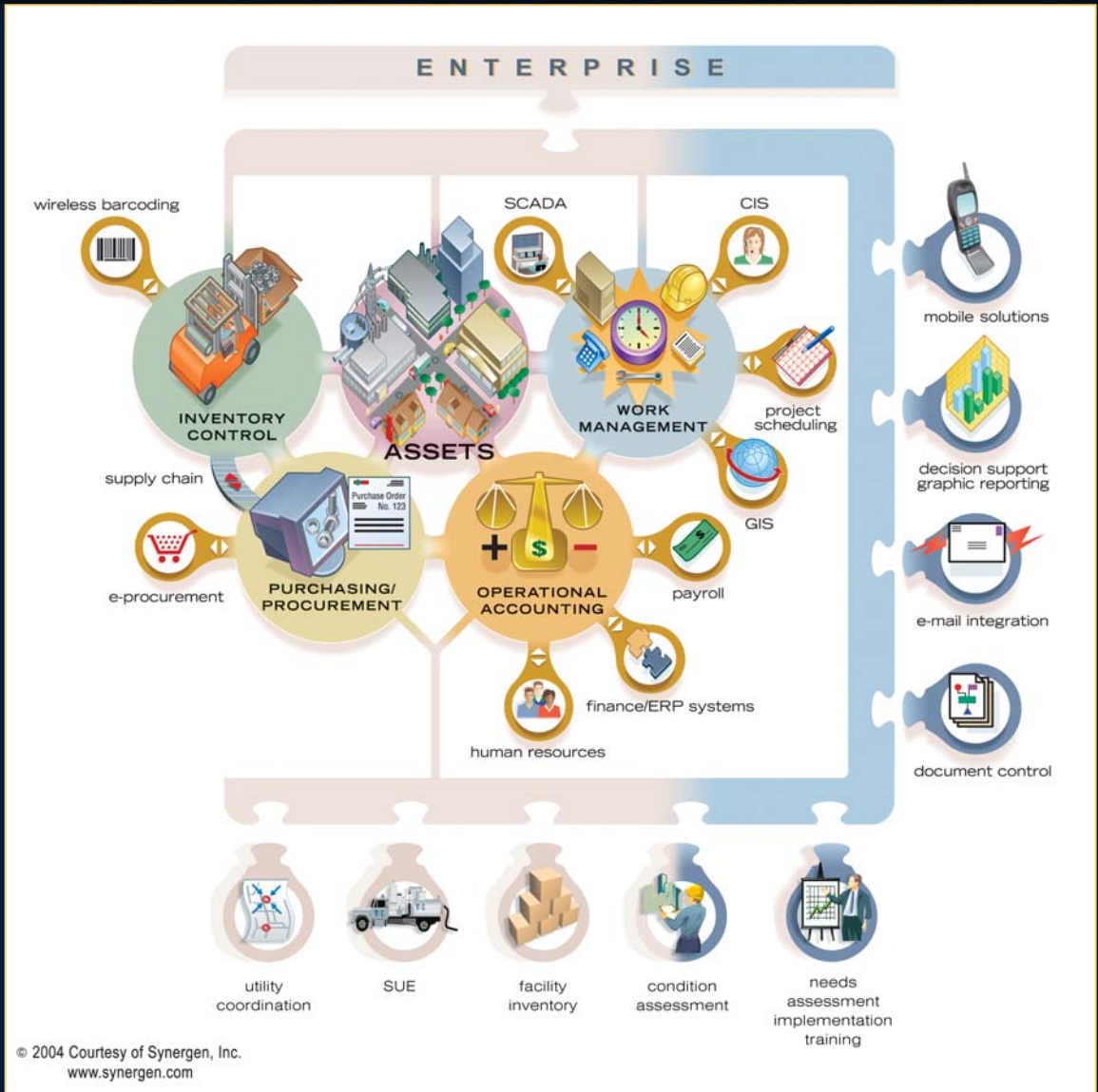
# SUE /GIS Services



# Manage It



# Enterprise Asset Management



# Step by Step Process to Minimize Risks and Costs

## Asset Management Process



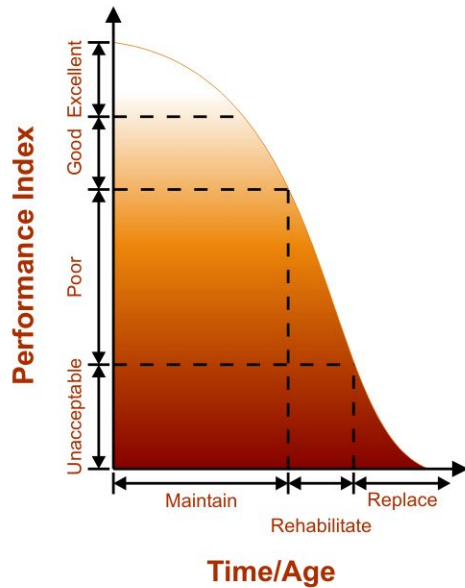
Existing Asset Assessment

Future Facilities Planning

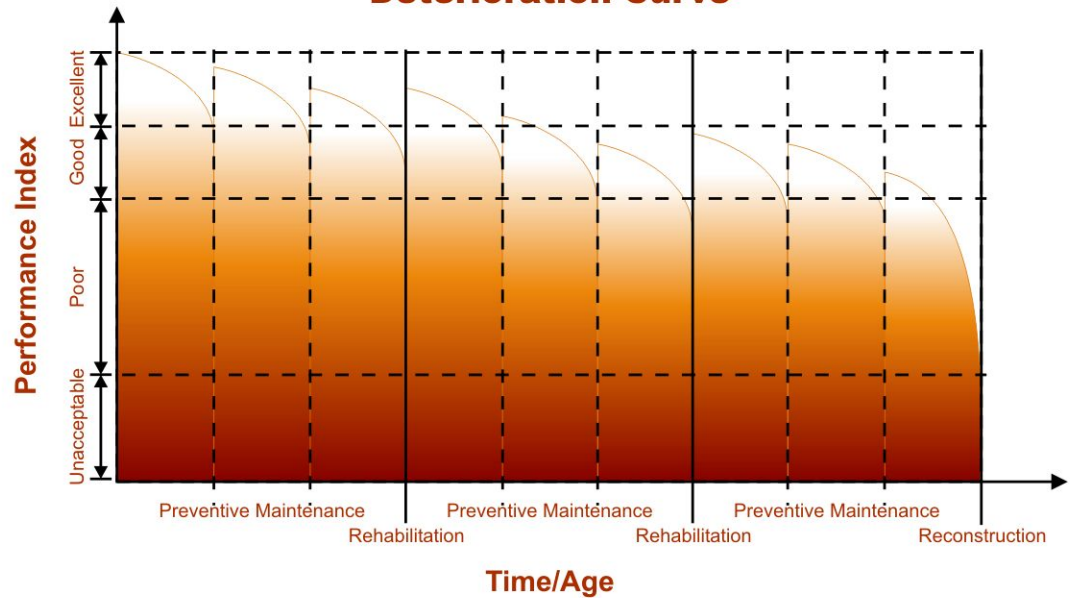
Risks/Costs

# Asset Management

## Deferred Maintenance Deterioration Curve

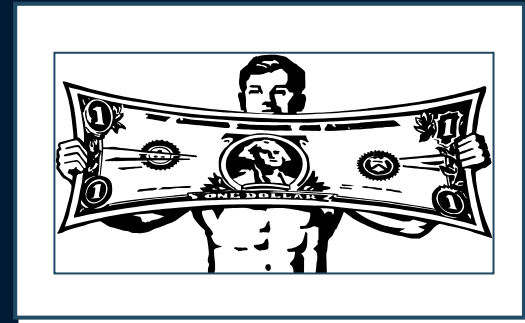


## Preventive Maintenance Deterioration Curve



# Benefits

- Improve Emergency Response Time
- Better Security
- Avoid Unexpected Infrastructure Failures
- Satisfy Regulations
- Produce Accurate and Timely CIPs and Budgets
- Integrate Departments
- Improved Allocation of Funds and Resources
- Eliminate Redundancy
- Save Money



# Keys to Your Success

- Inventory It
- Map It
- Manage It





# Question and Answer Session



***Thank You***