Overview of Asset Management's 5 Core Components

When you know better you do better

Maya Angelou

THE AM THOUGHT PROCESS CONSISTS OF 5 CORE COMPONENTS



THE AM THOUGHT PROCESS CONSISTS OF 5 CORE COMPONENTS

ASSETS

What assets do you manage, where are they, what condition are they in, and how much are they worth?

FUNDING

Do you have funding sources to provide the capital you need for O&M and replacement?

LIFE CYCLE

How long will your assets last? Are you maintaining them and preparing for replacement?

SERVICE LEVEL

What level of service do you want to provide for your customers?

CRITICALITY

How important is it that specific assets keep functioning?

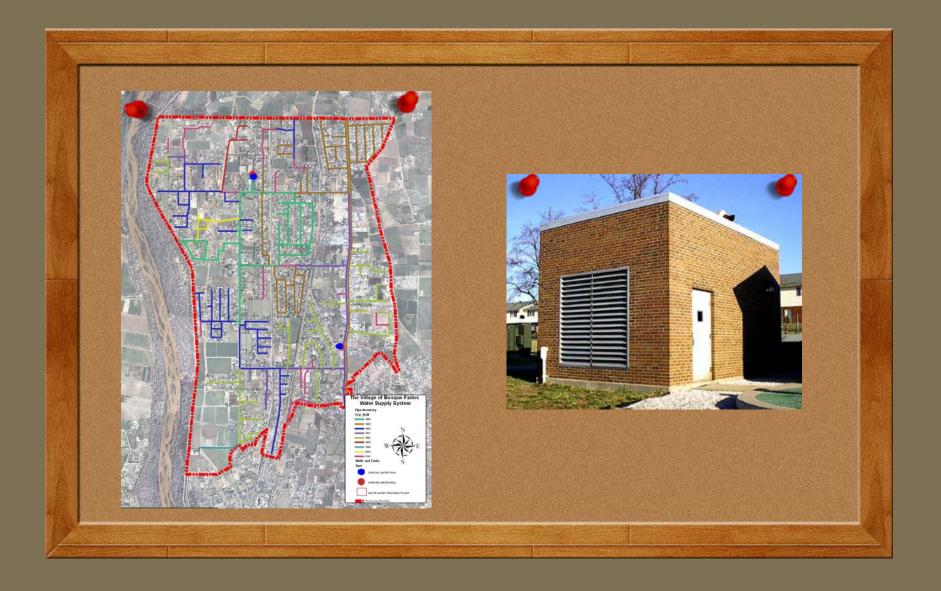
CURRENT STATE OF THE ASSETS

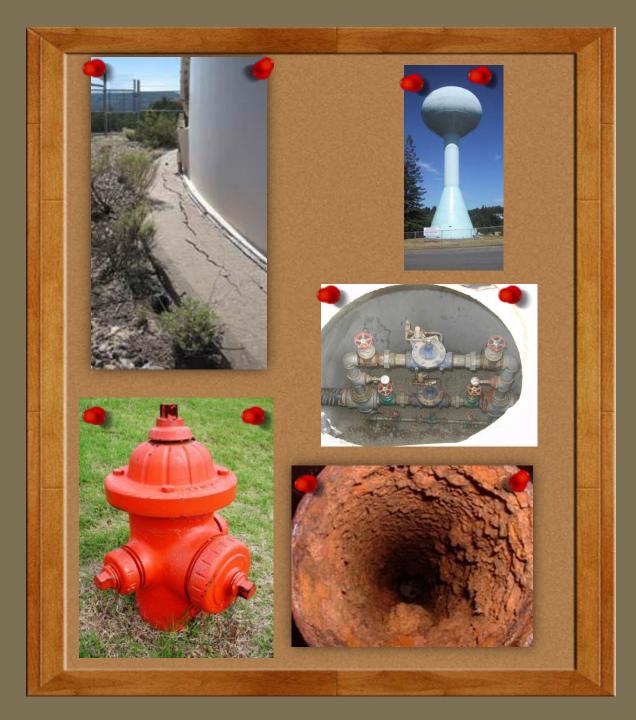
When you know better you do better

Maya Angelou

WHAT ASSETS DO YOU OWN?

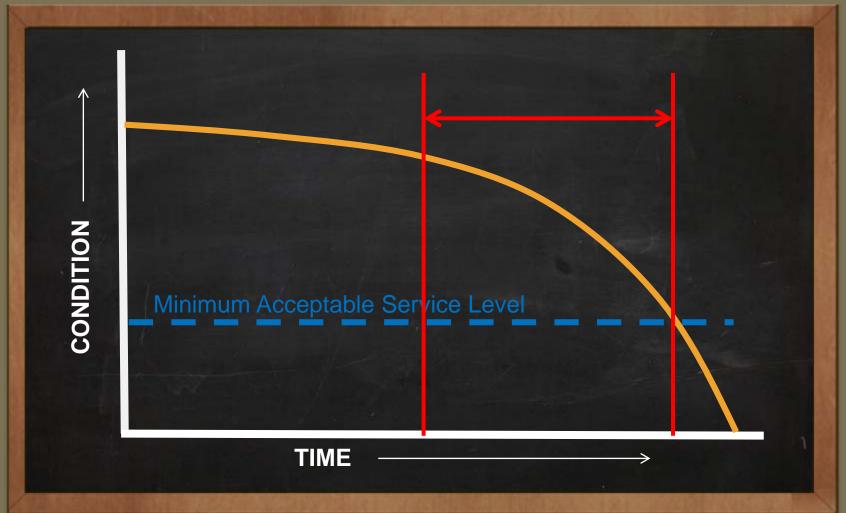
WHERE ARE THEY LOCATED?





WHAT CONDITION ARE THEY IN?

WHAT IS THEIR REMAINING USEFUL LIFE?



WHAT IS THEIR REPLACEMENT VALUE?



LEVEL OF SERVICE

When you know better you do better

Maya Angelou

WATER UTILITIES ARE FIRST AND FOREMOST CUSTOMER SERVICE BUSINESSES



SO IT'S ALL ABOUT THE CUSTOMERS

CUSTOMER SERVICE IN ASSET MANAGEMENT TERMS

Defines the major goals of the utility (defines what level of service the utility will provide)



CALLED LEVEL OF SERVICE

LEVEL OF SERVICE IS A CHANCE TO



What's really important

HAVE A CONVERSATION WITH CUSTOMERS

UNDERSTANDING OF COSTS

higher levels of service = higher costs lower levels of service = lower costs

Service and cost are related



SETTING SMART GOALS



ONE MORE ACRONYM.....KISS

Everything should be made as simple as possible, but not simpler.

Albert Einstein

Keep it Simple and Sustainable

WRITTEN GOALS CHANGE YOUR OPERATION



GOAL ARE NOT SET IN STONE



CRITICALITY

When you know better you do better

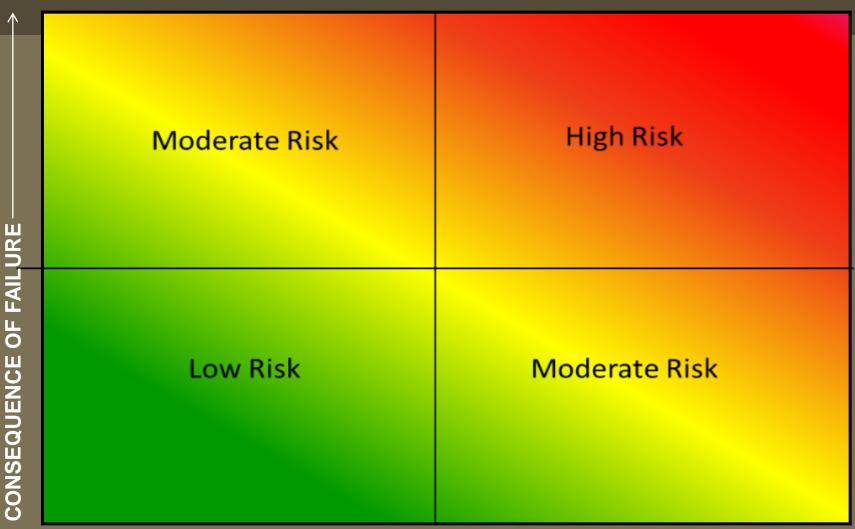
Maya Angelou



What is the likelihood that an asset will fail?

What is the consequence if the asset does fail?

ASSET RISK



CALCULATING CRITICALITY

POF = PROBABILITY OF FAILURE

COF= COST OF FAILURE

Redundancy Factor = RF

Criticality = POF X COF X RF

WAYS TO REDUCE RISK

Routine & Preventative Maintenance	Redundancy	Spare Parts
Specialized Training	Replace Assets Early	Monitoring

CRITICALITY CHANGES

- ✓ CRITICALITY IS NOT STATIC
- EACH DAY CRITICALITY CHANGES SLIGHTLY
- NEED TO REASSESS CRITICALITY AT LEAST EVERY YEAR IF NOT SOONER

 REASSESS WHEN MAJOR CHANGES ARE MADE (UPGRADES, REPLACEMENTS, MAJOR CONSTRUCTION, REHABILITATION, REDUNDANCY ADDED)

Life Cycle Costing

When you know better you do better

Maya Angelou

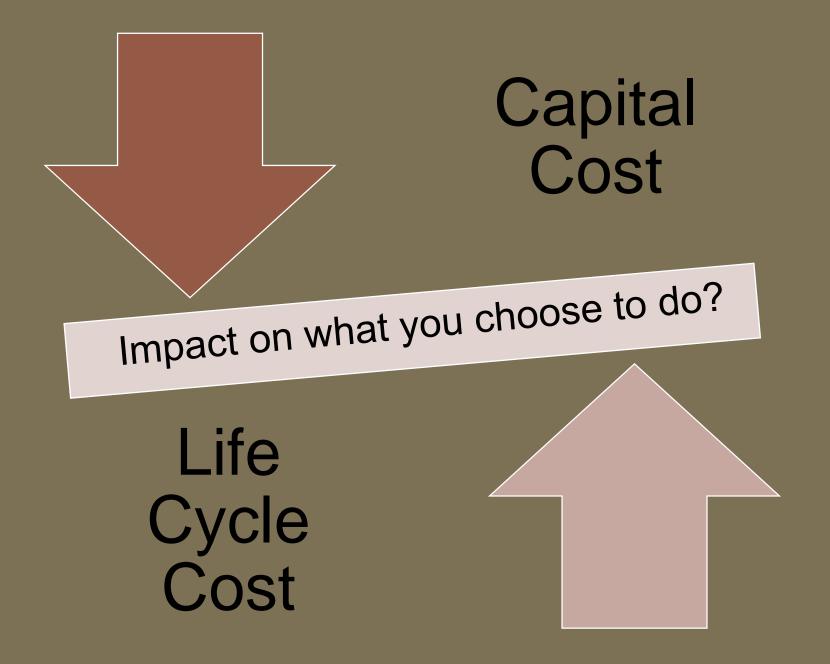
CAPITAL COSTS ONLY



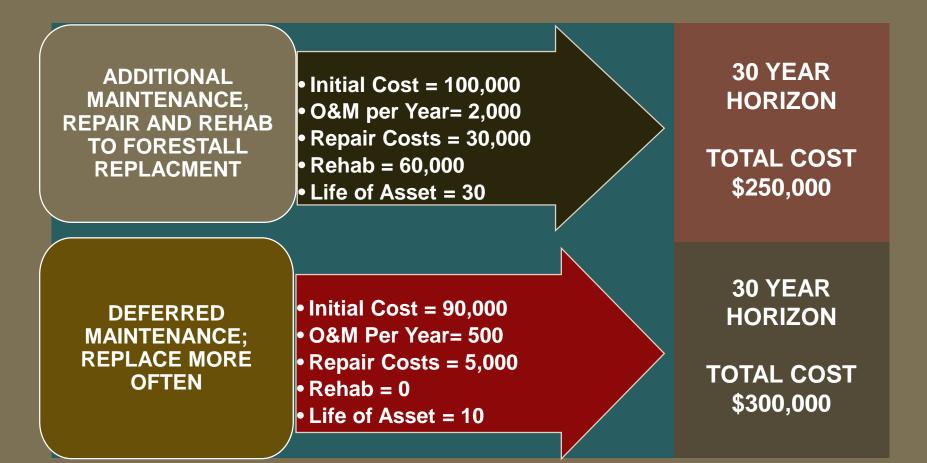
VS. LIFE CYCLE COSTS



COSTS OVER ENTIRE LIFE



An Example



Life Cycle Costing is About Balance

REPLACEMENT

O&M REPAIR & REHAB

MAINTENANCE ACTIVITIES



ROUTINE



PREDICTIVE



PREVENTATIVE

CAPITAL ACTIVITIES



HOW TO DECIDE WHEN TO REPAIR, REHABILITATE, REPLACE



CAPITAL PROJECTS



LOOK CAREFULLY AT HIGH DOLLAR PROJECTS

Long Term Funding Strategies

When you know better you do better

Maya Angelou

WHAT ARE YOUR FUNDING NEEDS?

DAY TO DAY EXPENSES? (O&M)

CAPITAL EXPENDITURES (LONG TERM EXPENSES)

WHERE WILL THE MONEY COME FROM?

O&M – GENERAL FUNDS, OTHER FUNDS, RATES, FEES, PENALTIES

CAPITAL PROJECTS – SYSTEM FUNDS AND/OR OUTSIDE FUNDING (GRANTS, LOANS)



WHY DO YOU NEED THE FUNDING? WHAT IS THE BENEFIT?

WHAT IS THE RISK IF YOU DON'T GET THE MONEY? NEED SPECIFICS

SOME THOUGHTS

It's better to walk on the right road than run on the wrong one

SOME THOUGHTS

Asset Management is best done by the people who own, manage, and operate the assets

SOME THOUGHTS

Efficient management of assets is necessary to be good stewards of the public assets